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ABSTRACT

Intended primarily for the use of NCES (National Center for Education Statistics) staff, this document contains installation-specific information for the Thesaurus/Glossary computer system as installed at the HEW (Health, Education and Welfare) Data Management Center. The first of three sections provides an overview of system objectives, terminology usage, system concept, implementation, classification schedules update, thesaurus update, adding new source term occurrences, source term update, definition update, report printing, and additional references. The second section provides practical information on: how to update the classification schedules, thesaurus, source term file, and definitions; how to add new source term occurrences; how to protect the data base; and how to print formal reports. The final section covers system maintenance including updates, source term edit and entry, and the various print indices and reports. Appendices provide sample reports, transaction formats, error messages, procedure listings, Mark IV file names and tables, transaction definition index, file definitions/transaction definitions, request groups, and source codes. (THC)

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THESAURUS/GLOSSARY SYSTEM

USER'S GUIDE

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by the

National Center for Higher Education Management Systems

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IMPROVED SYSTEMS FOR MANAGING THE CONTROL OF PAPERWORK

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PREFACE

This document, entitled Thesaurus/Glossary System: User's Guide, is one of several products developed by NCHEMS staff as a result of the NCES-funded project "Improved Systems for Managing the Control of Paperwork." Other final published reports from this project are:

- Redundancy Checking System: Retrieval Manual
- Redundancy Checking System: Systems Manual
- Redundancy Checking System: Indexing Manual
- Redundancy Checking Thesaurus
- Thesaurus/Glossary Preparation
- Glossary of Education Terminology

This document is intended primarily for the use of NCES staff, and contains installation-specific information for the Thesaurus/Glossary computer system as installed at the HEW Data Management Center. Because of this, it may not properly reflect information for installations other than the DMC. Users requiring additional information about the Thesaurus/Glossary System are encouraged to contact:

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This report has been reviewed by NCHEMS and EDAC staff, but has not been reviewed or approved by the NCHEMS Board of Directors.

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SECTION I: OVERVIEW

Objectives

The Thesaurus/Glossary System is a semi-automated system designed as a means of illustrating how educational terminology is used, classified, and defined. The system presents a controlled framework in which to:

- describe all aspects of education;
- clarify and limit the extensive vocabulary available to a concise subset of terms to be used in checking for redundancy in data collection efforts;
- relate terms as currently used and classified to provide a basis for reconciling conflicts and standardizing usage.

The system includes a set of computer programs to record terminology changes and produce reports, a data base containing terminology, and a detailed set of procedures for using the programs and data base.

Terminology Usage

The following descriptors will be used to distinguish the subsets of terms and codes used in the system:

- A controlled vocabulary term is a word or phrase that is part of the limited subset of terms used for redundancy checking.
- A lead-in entry term is a word or phrase used in the thesaurus to point users to the appropriate controlled vocabulary term to be used for redundancy checking.
- A source term is a word or phrase that has been selected from the source documents to appear in the glossary (source terms are not necessarily unique and may be identical to a controlled vocabulary term or lead-in entry term).
- A reference term or reference is either a controlled vocabulary term or a lead-in entry term which is formally related to another term in the thesaurus (i.e., "Use," "UF," "RT," "BT," "NT," "See," "Use and" references).
- A classification code is a unique code assigned to a controlled vocabulary term to indicate position in the overall classification structure. (For a description of the classification structure, see the Introduction to the Redundancy Checking Thesaurus referenced at the end of this section.)

- A glossary structure code is an extension of a classification code assigned to one or more source terms to control positioning of the term(s) in the structured glossary. The glossary structure code has two parts, a classification portion that is identical to a classification code and a glossary portion used to further structure multiple source terms related to the same controlled vocabulary term.

The following terminology is used with specific technical meaning throughout this document:

- Reconciliation of files refers to the process of keeping the data in each of the master files consistent with the data in each of the other master files.
- A change report is a report of all changes made to a particular master file during a particular update run.
- A lead-in entry unit is a set of two or more transactions used to add a lead-in entry term and its references to the thesaurus or to change the references already associated with a lead-in entry term. Lead-in entry transactions must always be submitted as a unit.
- An occurrence identifier is the set of information used to identify the location in the source documents of a particular occurrence of a source term and its definition. The components of the occurrence identifier are the document identifier, the page number, and a sequence identifier that is assigned to reproduce the sequence of terms on the source page.
- A hierarchical file is a computer file that contains, in addition to a basic set of data fields, one or more data fields that may occur a variable number of times. In Mark IV, these variably occurring fields are called lower level segments. (The thesaurus is a hierarchical file containing lower level segments for broader term references, narrower term references, used for references, related term references, and lead-in entry references. The source term file is a hierarchical file containing lower level segments for original forms of the term texts, occurrence identifiers, and cross-references.)
- A procedure is a set of instructions for the computer.

System Concept

The Thesaurus/Glossary and Redundancy Checking Systems together form a set of tools to assist in managing document control activities. Figure I.1 provides an overview of the Thesaurus/Glossary System and its linkage to the Redundancy Checking System.

SYSTEM OVERVIEW

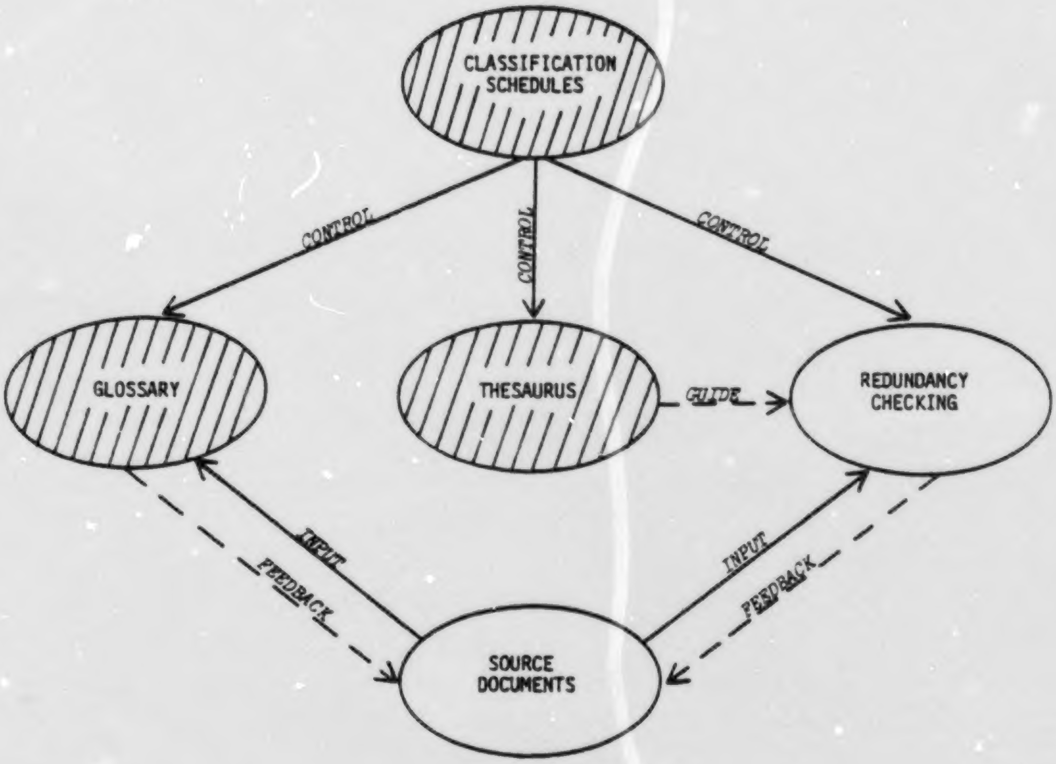

CLASSIFICATION SCHEDULES
CONTROL
CONTROL
CONTROL
GLOSSARY
THESAURUS
GUIDE
REDUNDANCY CHECKING
INPUT
FEEDBACK
INPUT
FEEDBACK
SOURCE DOCUMENTS

FIGURE I.1

The classification schedules serve the control function of conceptually integrating the terminology stored in the data bases. The thesaurus functions as a user guide to the classification structure, illustrating grammar and intended usage. The glossary documents external usage and provides feedback information for standardizing the definitions given in source documents. The Redundancy Checking System provides feedback information for standardizing data and unifying data collection efforts. More detailed information regarding the conceptual development of the thesaurus/glossary data base, use of the Classification Schedules Report, the Thesaurus Report, and the Glossary Report; and use of the Redundancy Checking System is contained in the documents listed at the end of this section.

Since language is constantly changing, the most critical subsystems of the Thesaurus/Glossary System relate to modifying the data base to include new areas of concern and eliminate obsolete ones. Information derived from new sources or revisions to old sources must be integrated into the system without compromising the integrity of the whole.

Figure I.2 illustrates the overall flow through the Thesaurus/Glossary System along with the points at which the Thesaurus/Glossary System interacts with the Redundancy Checking System. The basic inputs for all modifications are transactions which direct the system to accomplish specific changes to the data base. Transaction cards are input and one or more reports are output describing the results of the run. However, in order to maintain internal consistency in the data base, the update subsystems include verification procedures that prevent any modification to the data base until all transactions entered are valid. The formal products of the Thesaurus/Glossary System consist of six reports: The Classification Schedules Report, the Thesaurus Report, the Thesaurus Index, the Glossary Structure Display, the Glossary, and the Glossary Index.

OVERVIEW OF FLOW

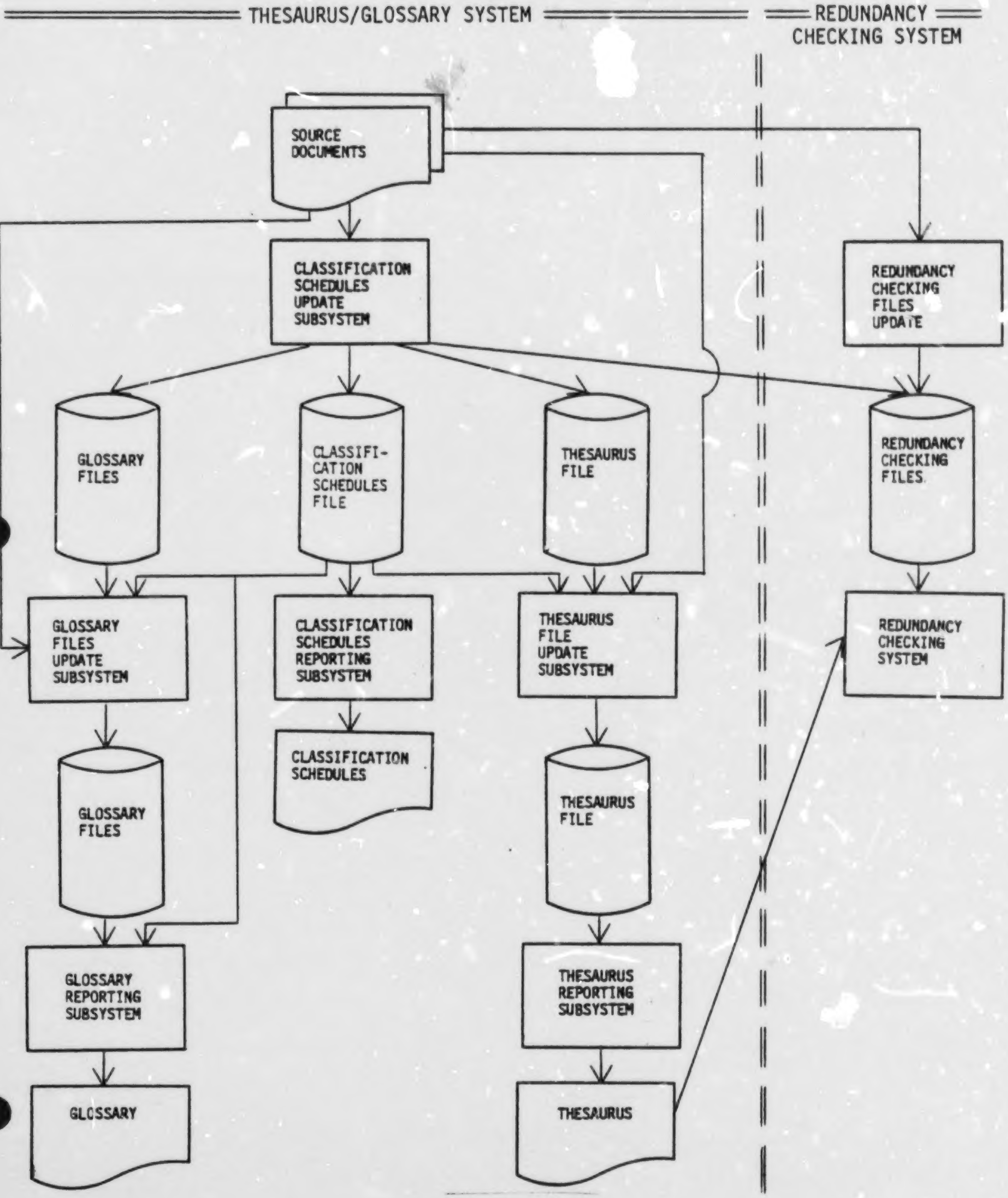

THESAURUS/GLOSSARY SYSTEM
REDUNDANCY CHECKING SYSTEM
SOURCE DOCUMENTS
CLASSIFICATION SCHEDULES UPDATE SUBSYSTEM
REDUNDANCY CHECKING FILES UPDATE
GLOSSARY FILES
CLASSIFI-CATION SCHEDULES FILE
THESAURUS FILE
REDUNDANCY CHECKING FILES
GLOSSARY FILES UPDATE SUBSYSTEM
CLASSIFICATION SCHEDULES REPORTING SUBSYSTEM
THESAURUS FILE UPDATE SUBSYSTEM
REDUNDANCY CHECKING SYSTEM
CLASSIFICATION SCHEDULES
GLOSSARY FILES
THESAURUS FILE
GLOSSARY REPORTING SUBSYSTEM
THESAURUS REPORTING SUBSYSTEM
GLOSSARY
THESAURUS

FIGURE I.2

Data Base

The data base consists of four physical files: a classification schedules file, a thesaurus file, a source term file, and a definition file. The source term file and the definition file, taken together, form the glossary files.

Each record of the *classification schedules file* contains a controlled vocabulary term along with its associated classification code. Both entries must be unique. In order to maintain consistency between the various master files used by the Thesaurus/Glossary and Redundancy Checking Systems, the procedure that updates the classification schedules file also makes changes in the thesaurus and source term files and produces a table for use in updating the redundancy checking system files. This process of keeping the data in each of the master files consistent with the data in the other master files is referred to as reconciliation.

Each record of the *thesaurus file* contains either a controlled vocabulary term or a lead-in entry term along with its associated reference terms and, for controlled vocabulary terms, the appropriate classification code.

Each record of the *source term file* contains a source term along with variant forms of that term and references to the location of each occurrence of the term in the source documents. Cross-references to related source terms may also be specified. Source terms may be entered and updated without linking them to the classification schedules. However, any update of a source term's glossary structure code is automatically checked against the classification schedules to assure that the code represents a valid level in the hierarchical structure. Source terms not assigned a valid glossary structure code will print alphabetically at the end of the structured glossary with a code consisting of all 9's.

Each record of the *definition file* contains the text of the definition, when one occurs, along with the desired sequencing of multiple definitions in the glossary. Flags may be set to indicate that (1) a term was not defined in a particular source document in which it occurred; (2) the definition has been modified by project or EDAC staff to make it understandable outside the context of the original source; (3) the definition is a duplicate and only the source reference will appear in the glossary; and (4) the definition is preferred over other definitions for the same term. Optionally a scope note may be entered to clarify context.

Implementation

The Thesaurus/Glossary System has been implemented for batch use utilizing the extended Mark IV language. The standard input format is a card image transaction with two sections. Columns 1-25 contain identifiers to specify the type of action to be taken and the record on which the action is to be carried out. Columns 26-80 contain data. Definitions have been input in upper and lower case as they appear in the source documents. All other entries are in upper case only. Controlled vocabulary terms and lead-in entry terms contain limited use of punctuation and special characters.

Cataloged procedures are provided for updating each of the files in the data base, backing up the data base after any changes have been made, and printing each of the formal reports.

Classification Schedules Update

The classification schedules summarize and control the usage of terminology throughout the Thesaurus/Glossary System. Any change made to the classification schedules affects the entire data base, and hence represents a major undertaking. In order to maintain the integrity of the system, all transactions against the classification schedules undergo two sets of verification procedures. Failure of even one of the transactions to pass these verification procedures prevents any updates from being performed. A transaction error report is provided to facilitate tracing and correcting any problems.

Update of the classification schedules includes automatic reconciliation of the thesaurus to any changes made. Any controlled vocabulary word that appears in the classification schedules will also appear automatically in the thesaurus. When an entry is deleted from the classification schedules, all references to that controlled vocabulary term are deleted automatically from the thesaurus.

In order to prevent misclassifications of source terms, any glossary structure code that is hierarchically subordinate to a deleted or changed classification code is removed. No other changes are made to the glossary files. The source term, along with its definitions, will be listed as an unstructured term at the end of the glossary.

The update procedure produces three change reports, one for each of the files affected. These reports provide a means to review the changes made and document items to be updated in later thesaurus or source term update procedures.

Thesaurus Update

The thesaurus functions as a user guide to the terminology stored in both the Thesaurus/Glossary and Redundancy Checking Systems. Although the thesaurus is updated automatically when the classification schedules are changed, it is also desirable to add references and lead-in entry terms to the thesaurus to point the user to the appropriate controlled vocabulary term for a particular situation. The thesaurus update subsystem is the mechanism used to accomplish these changes.

Prior to performing any updates to the thesaurus file, a verification step checks to make sure any controlled vocabulary term referenced by an "RT," "BT," "NT," "Use," "Use and," "See," or scope note transaction actually appears in the classification schedules. Lead-in entries are checked to assure they form a valid lead-in entry unit and do not duplicate a controlled vocabulary term. Failure of any transaction to pass these verification procedures will prevent execution of the update and produce a Transaction Error Report. Execution of the update phase will apply all transactions entered as well as system generated reciprocal transactions where appropriate. A detailed report of all changes made is produced automatically.

Adding New Source Term Occurrences

The source term file is organized hierarchically to allow grouping of variant forms of a term. In addition, the text of the term may be up to 154 characters long, too long to fit on a single transaction card. To minimize the need to make changes to the body of an entry in the source term file, provision has been made for editing the transactions used to add new occurrences of terms prior to performing the actual master file update. In this edit procedure, changes may be made and a report printed that flags all transactions that were modified. When all transactions are satisfactory, the transaction file is used to update the source term file. Two procedures are provided to perform these functions.

Source Term Update

Direct updates to the source term file require use of the computer generated *term identifier*. This identifier is obtained from the glossary where it occurs in parentheses at the end of the definitions for that term. A verification step checks all glossary structure code transactions against the classification schedules. If an error is found, the update step is bypassed and an Transaction Error Report is generated. After the transactions have been corrected, the update proceeds automatically and a report is printed giving the entire contents of each record that was changed or for which a listing was explicitly requested by a "list" transaction.

Definition Update

Since the definition file functions independently of the classification structure, no verification of transactions takes place. The run directly updates the definition file. If any change is made to a definition record or if a listing was specifically requested, the entire contents of the record will print on the change report.

Report Printing

A separate procedure has been set up to print each of the six formal reports. The default option produces reduced Xerox output which consists of 8 1/2 x 11 photo copies of the report. However, computer output microfilm is also available.

Additional References

The following documents, deliverable products of the "Improved Systems for Managing the Control of Paperwork" project, provide detailed information regarding the Redundancy Checking System and the conceptual development and use of the thesaurus/glossary data base.

Document 1: Redundancy Checking System: Retrieval Manual
Document 2: Redundancy Checking System: Systems Manual
Document 3: Redundancy Checking System: Indexing Manual

Document 5: Redundancy Checking Thesaurus

Document 6: Thesaurus/Glossary Preparation

Document 7: Glossary of Education Terminology

SECTION IIA: HOW TO UPDATE THE CLASSIFICATION SCHEDULES

Generating Transactions*

Four operations can be performed in updating the classification schedules. Controlled vocabulary entries may be added or deleted, or the code or the spelling of the term may be changed. Changes are made both to the classification schedules and to the thesaurus, with spelling changes effected for all references to the term as well as for the main controlled vocabulary entry.

In generating transactions, refer to the current version of either the Classification Schedules Report (ordered by code) or the Thesaurus Report (ordered alphabetically by term) in order to assure that both the code and the term are unique and have been entered accurately.

The following format is used for all transactions:

Column Numbers	Field Description	Instructions	Maximum Length
1-2	transaction identifier	Select appropriate operation.	2
3-22	code	Left justify. Blank fill. Field must be numeric with no imbedded blanks or punctuation.**	20
23-25		Leave blank.	3
26-65	term	Left justify. Blank fill.	40
66-80		Leave blank.	15

---

*Since no updates will be performed until all transactions submitted pass the verification procedures, it is recommended that changes be made in small batches to facilitate locating and correcting errors.

**The periods are added by the report programs to facilitate reading the code. They should not be included on any input transaction.

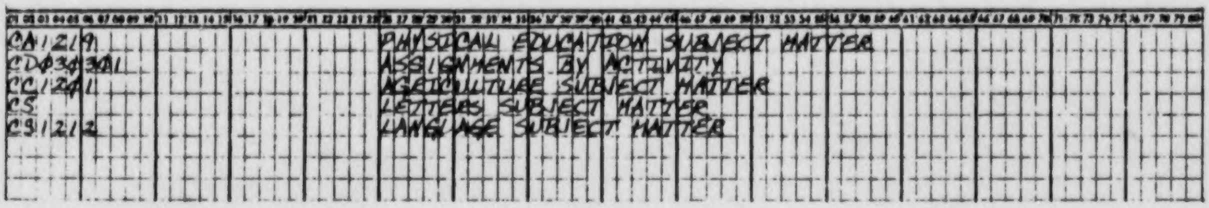
- To *add* a controlled vocabulary entry, specify the transaction identifier "*CA*" and make sure neither the term nor the code appear in the current classification schedules.

- To *delete* a controlled vocabulary entry, specify the transaction identifier "*CD*" and make sure both the term and code are copied accurately from the current classification schedules.

- To *change the code* for a controlled vocabulary entry, specify the transaction identifier "*CC*." The *new* code should be used. This new code may not appear in the current classification schedules. The term should be identical to that used in the current classification schedules.

- To *change the spelling* of a controlled vocabulary term, two transaction cards are necessary. Both cards contain the transaction identifier "*CS*." The first card has a *blank code* along with the *old* spelling of the term exactly as it appears in the current classification schedules. The second card contains the *code currently* in the classification schedules along with the *new* spelling which may not occur in the current classification schedules.

The following examples illustrate the format of each transaction type:



```
CA1219                    PHYSICAL EDUCATION SUBJECT MATTER
CD0343A1                  ASSIGNMENTS BY ACTIVITY
CC1241                    AGRICULTURE SUBJECT MATTER
CS                        LETTERS SUBJECT MATTER
CS1212                    LANGUAGE SUBJECT MATTER
```

Restrictions

- Each term must be unique.

- Each code must be unique.

- In a given run, only one operation may be performed on a particular code or term. This means that at least two update runs must be executed to move entries to code positions that are already in use.*

---

*To avoid extensive manual reentry of thesaurus references, it is suggested that restructuring be performed by first moving all entries to be changed to an unused section of the classification schedules (e.g., substitute a "9" for the first digit of the code). A second run can then be used to move these entries to the desired positions in the classification structure.

- Controlled vocabulary terms appearing in the thesaurus may be changed only by updating the classification schedules.

- If there is a lead-in entry term in the thesaurus that you would like to have as a controlled vocabulary term, the lead-in entry should be deleted from the thesaurus *prior to updating the classification schedules*. (See Section IIB for instructions on how to delete lead-in entries.)

Running the Update Procedure

If the transactions were generated on cards, submit the following run sequence:

```
//      job card
//EDASUC  EXEC  PROC=EDAPUC
//UC1.SORTIN  DD  *
     ···transaction cards···
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASUC  EXEC  PROC=EDAPUC
//UC1.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

Correcting Transaction Errors

No updates will be performed until all transactions submitted in the run have successfully passed the verification procedures. If any transaction fails verification, at least one Transaction Error Report will be produced. (Note: the classification schedules update contains two verification steps, so check the output for two reports and make sure corrections are made for each before resubmitting the run.)

The Transaction Error Report lists three items of information for each rejected transaction. The contents of the transaction card are listed so that it can be located and corrected. Following the transaction card image is a numeric error type accompanied by a short error message.

Use the number specified in the error type to reference the appropriate section of Appendix C, Error Messages, to determine the cause of the error and the action needed to correct the problem.

When all problems have been traced, resubmit the run with the corrected transaction file. If the verification fails again, repeat the process above.

Checking the Change Reports

When all transactions have been verified, the classification schedules file is updated and the thesaurus and source term files are reconciled to the changes made. A change report is produced for each of the files modified.

The Classification Schedules Change Report may be reviewed briefly to make sure that no data entry errors occurred in new or revised terms or codes.

The "deleted" section of the Thesaurus Change Report should be reviewed carefully to determine if a thesaurus update run is ncessary. Lead-in entry terms that referenced deleted controlled vocabulary terms will have been deleted. This may leave conceptual gaps that you will want to fill by reentering the lead-in entry with a new set of references. You may also wish to update the thesaurus with references to or for any controlled vocabulary terms that were added to the classification schedules. (See Section IIB for instructions on how to update the thesaurus.)

The Glossary Change Report lists all source terms that became *unclassified* during the update procedure. All source terms related to controlled vocabulary terms that were deleted or recoded will have become unclassified. Once you have printed the updated classification schedules, you can determine where to classify the terms listed on the Glossary Change Report and make the necessary updates. (See Section IID for instructions on how to update the source term file.) Until these terms have been reclassified, they will print at the end of the glossary under the heading "Unstructured Source Terms," with a glossary structure code consisting of all 9's.

Abend Recovery Procedures

If the run terminates abnormally, check the messages in the JCL listing at the beginning of the output against the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedure. Override DD statements can be added to your run or symbolic parameters changed on the EXEC card to correct the problem. It is possible that partially updated versions of the master files may have been created and cataloged during the failed run. This will be apparent in the Transaction Error Reports when the run is resubmitted. Previously valid transactions will be rejected because the updates will have already been made. If this happens, symbolic parameters should be changed for each of the data sets that was partially updated in order to access the prior version of the file.

The following example illustrates the run sequence that would be submitted if the thesaurus file ran out of space during the update procedure and the new files created by the partial update were not deleted when the abnormal termination occurred:

```
//      job card
//EDASUC  EXEC  PROC=EDAPUC,GENC='(-1)',GENT='(-1)'
//UC1.SORTIN  DD  *
     ...transaction cards...
/*
//UC15.M4NEW  DD  SPACE=(TRK,(80,5),RLSE)
```

<u>Summary Checklist</u>

Step 1: Check all proposed changes against the current version of the classification schedules.

Step 2: Prepare update transactions.

Step 3: Submit job.

Step 4: If a Transaction Error Report is returned, check error messages and take the appropriate corrective action.

Step 5: Resubmit job.

Step 6: Check the change reports for each of the files (classification schedules, thesaurus, and glossary) to make sure all changes were made as desired and to determine if further changes are now desired in either the thesaurus or glossary.

SECTION IIB: HOW TO UPDATE THE THESAURUS

Generating Transactions*

Twenty-three types of transactions are available for directly updating the thesaurus. References may be added to or deleted from controlled vocabulary entries. Scope notes may be added, changed, or deleted. Lead-in entries may be added, changed, or deleted.

In generating transactions, refer to the current version of the Thesaurus Report to assure that entries are accurate.

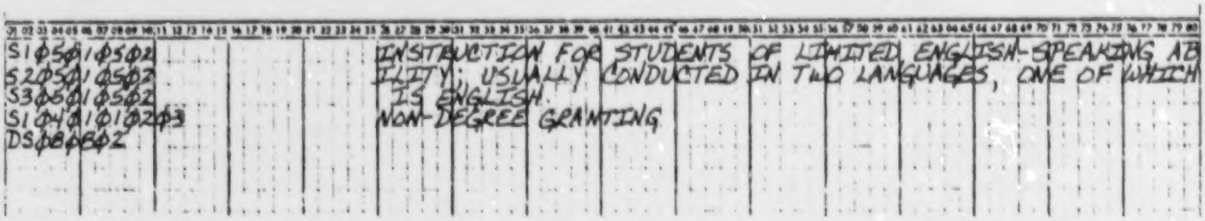
Scope notes may be 165 characters long. Three transaction cards are necessary to enter the full length, but only one or two cards may be used if the scope note is shorter. The following format is used to *enter* scope notes and to *change* existing scope notes. If changes to an existing scope note do not change the length, only the card for the affected portion need be entered.

Column Numbers	Field Description	Instructions
1	transaction identifier	Enter an *S*.
2	card number	Enter *1*, *2*, or *3*, depending on portion of scope notes to be added or altered. *1* affects characters 1-55, *2* affects characters 56-110, and *3* affects characters 111-165.
3-22	code	Left justify. Blank fill. Use code of entry to which scope note applies. Field must be numeric with no imbedded blanks or punctuation.**
23-25		Leave blank.
26-80	scope note	First card must be left justified. Continuation cards should be entered as if column 26 on the continuation were column 81 on the prior card; i.e., words are broken in the middle and spaces are entered in the sequence in which they would normally appear regardless of the end of one card and beginning of the next. The unused portion of the last card is left blank. (See examples below.)

---

*Since no updates will be performed until all transactions submitted pass the verification procedures, it is recommended that changes be made in small batches to facilitate locating and correcting errors.

**The periods are added by the report programs to facilitate reading the code. They should not be included on any input transaction.



```
S105010502               INSTRUCTION FOR STUDENTS OF LIMITED ENGLISH-SPEAKING AB
S205010502               ILITY; USUALLY CONDUCTED IN TWO LANGUAGES, ONE OF WHICH
S305010502                IS ENGLISH.
S10401010203             NON-DEGREE GRANTING
DS080802
```

The last example above illustrates the format for *deleting a scope note*. Only the first 22 columns of the card are to be used. The first two columns contain the characters "*DS*." The code for the entry is left justified in columns 3-22.

To add *references* to or delete them from controlled vocabulary terms, the following format is used:

Column Numbers	Description	Instructions
1-2	transaction identifier	Select appropriate operation.
3-22	code	Left justify. Blank fill. Field must be numeric with no imbedded blanks or punctuation.*
23-25		Leave blank.
26-65	reference term	Left justify. Blank fill.
66-80		Leave blank.

- To *add related term* references, specify "*RT*" in columns 1-2. The reference must already exist in the thesaurus as a controlled vocabulary entry. A reciprocal reference will be generated by the computer system.

- To *delete a related term* reference, specify "*DR*" in columns 1-2.

---

*The periods are added by the report programs to facilitate reading the code. They should not be included on any input transaction.

- To *add broader term* references, specify "*BR*" in columns 1-2 if you want a reciprocal reference to be made in addition to the specified reference. The reciprocal reference will consist of an "NT" entry under the reference term specified. If you do not want a reciprocal entry, specify "*BT*" in columns 1-2. In both cases, the reference must already exist in the thesaurus as a controlled vocabulary entry.

- To *delete a broader term* reference, specify "*DB*" in columns 1-2. (Note: deletes are always reciprocated.)

- To *add narrower term* references, specify "*NR*" in columns 1-2 if you want a reciprocal reference in addition to the specified reference. The reciprocal reference will consist of a "*BT*" entry under the reference term specified. If you do not want a reciprocal entry, specify "*NT*" in columns 1-2. In both cases, the reference must already exist in the thesaurus as a controlled vocabulary entry.

- To *delete a narrower term* reference, specify "*DN*" in columns 1-2. (Note: deletes are always reciprocated.

- Caution must be used in directly adding used for references. Make sure a lead-in entry with the same first 20 characters does not already exist in the thesaurus, or that if such a lead-in entry exists, it references the controlled vocabulary entry being modified. To perform the addition directly, specify "*UF*" in columns 1-2. A new or modified lead-in entry will also be produced. It is recommended that new used for references be added by entering a lead-in entry unit consisting of an "LE" transaction with a "UR" transaction as described below; use of the "UF" transaction described here may allow inconsistent entries to be produced.

- To *delete a used for* reference, specify "*DF*" in columns 1-2. The associated lead-in entry will also be deleted.

RT050104	KNOWLEDGE OUTCOMES
DR1003010106	UNDERGRADUATE STUDENTS
BR0103030403	PERSONAL INCOME
BT01030301	PERSONAL FINANCES
DB0103030404	PERSONAL INCOME
NR0803	FUNDS RECEIVED
NT01030622	HEALTH TECHNOLOGIST OCCUPATIONS
DN01030622	SCIENCE TECHNOLOGIST OCCUPATIONS
UF020301	FINANCIAL ASSISTANCE
DF010202	LANGUAGE DOMINANCE

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Lead-in entries may reference controlled vocabulary terms in three ways. If there is a direct, one to one relationship, a *use* reference should be specified. If more than one controlled vocabulary term is needed to express the lead-in, several *use and* references should be specified. If the lead-in can be used in several ways, any of which may be applicable, multiple *see* references should be used.

A lead-in entry may be added only in the form of a valid unit of two or more cards providing both the entry and its references. The lead-in term must be unique within the first 20 characters. References must already exist as controlled vocabulary entries.

The first card of the unit follows the format:

Column Numbers	Field Description	Instructions
1-2	transaction identifier	Enter *LE*.
3-25		Leave blank.
26-65	lead-in entry	Left justify. Blank fill.
66-80		Leave blank.

The reference cards follow the format:

Column Numbers	Field Description	Instructions
1-2	transaction identifier	Select appropriate relationship.
3-22	key	Left justify first 20 characters of lead-in term. Blank fill.
23-25		Leave blank.
26-65	reference term	Left justify. Blank fill.
66-80		Leave blank.

- To *add a use* reference, the lead-in entry unit consists of an "*LE*" card along with one and only one reference card. If reciprocation is desired (i.e., the addition of a "UF" reference under the controlled vocabulary term as well as the lead-in entry), specify "*UR*" in columns 1-2 of the reference card. If no reciprocation is desired, specify "*UN*" in columns 1-2.

- To *add use and* references, the lead-in entry unit consists of an "*LE*" card along with two or more reference cards containing "*UA*" in columns 1-2. "Use and" references cannot be reciprocated.

- To *add see* references, the lead-in entry unit consists of an "*LE*" card along with two or more reference cards containing "*SE*" in columns 1-2. "See" references cannot be reciprocated.

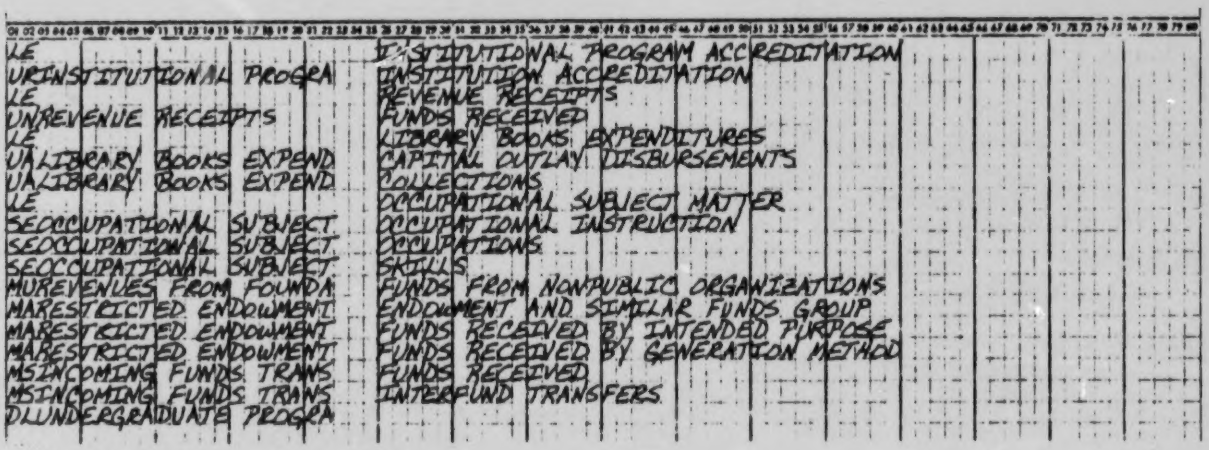
Lead-in entry references may also be changed, but *must be changed as a unit.*

- To *change a use* reference, enter a single reference card specifying "*MU*" in columns 1-2. If the prior reference was reciprocated, the old "UF" reference will be deleted. However, the new reference will not be reciprocated. If you want a reciprocated entry, a "UF" card must entered *as well as* the "MU" card.

- To *change use and* references, enter two or more reference cards specifying "*MA*" in columns 1-2. Enter all references, including those currently appearing for the entry that you want to retain.

- To *change see* references, enter two or more reference cards specifying "*MS*" in columns 1-2. Enter all references, including those that currently appear for the entry that you want to retain.

- To *delete a lead-in entry*, specify "*DL*" in columns 1-2 and the first 20 characters of the lead-in entry term in columns 3-22. Leave the remainder of the card blank. The lead-in along with all its references and the "UF" reference for reciprocated "use" entries will be deleted.



LE		INSTITUTIONAL PROGRAM ACCREDITATION
UR	INSTITUTIONAL PROGRA	INSTITUTION ACCREDITATION
LE		REVENUE RECEIPTS
UN	REVENUE RECEIPTS	FUNDS RECEIVED
LE		LIBRARY BOOKS EXPENDITURES
UA	LIBRARY BOOKS EXPEND	CAPITAL OUTLAY DISBURSEMENTS
UA	LIBRARY BOOKS EXPEND	COLLECTIONS
LE		OCCUPATIONAL SUBJECT MATTER
SE	OCCUPATIONAL SUBJECT	OCCUPATIONAL INSTRUCTION
SE	OCCUPATIONAL SUBJECT	OCCUPATIONS
SE	OCCUPATIONAL SUBJECT	SKILLS
MU	REVENUES FROM FOUNDA	FUNDS FROM NONPUBLIC ORGANIZATIONS
MA	RESTRICTED ENDOWMENT	ENDOWMENT AND SIMILAR FUNDS GROUP
MA	RESTRICTED ENDOWMENT	FUNDS RECEIVED BY INTENDED PURPOSE
MA	RESTRICTED ENDOWMENT	FUNDS RECEIVED BY GENERATION METHOD
MS	INCOMING FUNDS TRANS	FUNDS RECEIVED
MS	INCOMING FUNDS TRANS	INTERFUND TRANSFERS
DL	UNDERGRADUATE PROGRA	

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Restrictions

- All references except "used for" references must be controlled vocabulary terms already contained in the classification schedules.
- Lead-in entry terms must be unique within the first 20 characters.
- Lead-in entries may be added only as a valid lead-in entry unit.
- Controlled vocabulary terms in the thesaurus may be modified only by updating the classification schedules. (See Section IIA for instructions.)

Running the Update Procedure

If the transactions were generated on cards, submit the following run sequence:

```
//      job card
//EDASUT  EXEC  PROC=EDAPUT
//UT1.M4OLD  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASUT  EXEC  PROC=EDAPUT
//UT1.M4OLD  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

Correcting Transaction Errors

No updates will be performed until all transactions submitted in the run have successfully passed the verification procedures. If any transaction fails verification, a Transaction Error Report will be produced.

The Transaction Error Report lists three items of information for each rejected transaction. The contents of the transaction card are listed so that it can be located and corrected.* Following the transaction card image is a numeric error type accompanied by a short error message.

Use the number specified in the error type to reference the appropriate section of Appendix C, Error Messages, to determine the cause of the error and the action needed to correct the problem. Some errors may produce more than one message, particularly those involving lead-in entries.

When all problems have been traced, resubmit the run with the corrected transaction file. If the verification fails again, repeat the process above.

Checking the Change Report

When all transactions have been verified, the thesaurus file is updated producing a report of all changes made.

If the "added" section of the Thesaurus Change Report contains lead-in entries with incorrect reference sets or is missing one or more lead-in entries for which "UF" transactions were submitted, the lead-in terms referenced on more than one "UF" transaction were not unique within the first 20 characters. Delete all the "UF" references involved. Rephrase each lead-in term so that it is unique in the first 20 characters and generate an "LE" and a "UR" transaction for each, rather than using the "UF" transaction.

Review the "deleted" section of the report for any lead-in entries you want reentered with a new set of references.

---

*In some instances when an invalid lead-in entry unit has been submitted (e.g., the unit contains only one "SE" card), the transaction card given on the error report will not duplicate any of the transactions submitted. It will contain a blank transaction identifier along with the first 20 characters of the lead-in term. As in other cases of "invalid lead-in entry unit," check all cards in the unit for errors.

Note that all changes to scope notes, including additions and deletions, print in the "changed" section of the report. Parentheses indicate main entries that were not modified by the run but are included to provide context for changed references.

Abend Recovery Procedures

If the run terminates abnormally, look up the messages in the JCL listing at the beginning of the output in the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedure. Override DD statements can be added to your run or symbolic paramaters changed on the EXEC card to correct the problem. It is possible that a partially updated version of the thesaurus may have been created and cataloged during the failed run. This will be reflected in the Transaction Error Report when the run is resubmitted. Previously valid transactions will be rejected because the updates will have already been made. If this happens, a symbolic parameter should be changed in order to access the prior version of the thesaurus.

The following example illustrates the run sequence that would be submitted if the thesaurus file ran out of space during the update procedure and the new file created by the partial update was not deleted when the abnormal termination occurred:

```
//      job card
//EDASUT  EXEC  PROC=EDAPUT,GENT='(-1)'
//UT1.M4OLD  DD  *
     ...transaction cards...
/*
//UT6.M4NEW  DD  SPACE=(TRK,(80,5),RLSE)
```

Summary Checklist

Step 1: Check all proposed changes against the current version of the Thesaurus Report.

Step 2: Prepare update transactions.

Step 3: Submit job.

Step 4: If a Transaction Error Report is returned, check the error messages and take appropriate corrective action.

Step 5: Resubmit run.

Step 6: Check the Thesaurus Change Report to make sure all modifications were performed as desired.

SECTION IIC: HOW TO ADD NEW SOURCE TERM OCCURRENCES

Generating Transactions

The source term file is organized hierarchically to allow grouping of variant forms of a term. This means that the text of the term occurs twice in the file at two different hierarchical levels. To minimize the need to make changes to the text of the term, there are two procedures that need to be run to add new occurrences of source terms.

The first procedure, called the *edit procedure*, takes user generated transactions on 80 column cards and builds a new transaction file that includes the entire text of a source term (up to 154 characters) on a single transaction. This system generated transaction file may be updated by the user (with the edit procedure) as many times as is necessary to correct any errors that may have occurred. To facilitate the correction process, a Transaction Edit List is produced each time the edit procedure is run. The Transaction Edit List reports all entries as they appear in the system generated transaction file after all the user input transactions have been applied. Each entry that was modified during the current edit run is flagged with an asterisk.

When the user is satisfied that the system generated transaction file is correct, the second procedure, called the *entry procedure*, is run. The entry procedure uses the system generated transaction file to update the master source term file (i.e., no user generated transactions are submitted with the entry procedure). A Source Term Change Report listing the contents of all records to which occurrences were added is produced.

Five transaction types are used by the edit procedure in building and updating the system generated transaction file. Data for a particular occurrence of a source term may be added, modified, or deleted using from one to three cards to input the full text of the term.

When adding a new occurrence of a source term to the system generated transaction file, use the following format:

Column Numbers	Field Description	Instructions
1	transaction identifier	Enter *1*.
2	source type	"1" = handbook "2" = regulations "3" = survey instrument "4" = legislation "9" = NCHEMS
3-18*	document identifier	Left justify. Blank fill.
19-22	page number	Right justify. Zero fill.
23-25	sequence identifier	Left justify. Blank fill. Assigned in order of appearance on page. Column 23 is generally alphabetic. Column 24 is generally numeric or blank. Column 25 is generally blank, but is available to insert items that may have been missed.
26-36		Leave blank.
37-80	first 44 characters of term	Left justify. Blank fill.

---

*For survey instruments, the computer adds punctuation during the printing process. To assure correct placement of this added punctuation, the document identifier must be formatted as follows:

Column Numbers	Field Description	Instructions
3-6	agency	Left justify. Blank fill.
7-14	form number	Left justify. Blank fill.
15-18	edition date	Right justify. Blank fill. No punctuation (i.e., *mmyy* where *mm* is the month and *yy* the year). Use "D" for draft.

The text of the term may be continued on a second and third card, if necessary. (Only as many cards need be used as is necessary to contain the entire text of the source term.) The following format is used for *continuation cards*:

Column Numbers	Field Description	Instructions
1	transaction identifier	Enter *2* or *3*.
2		Leave blank.
3-25	occurrence identifier	See format specification and footnote for first card.
26-80	next 55 characters of term	Left justify. Blank fill.

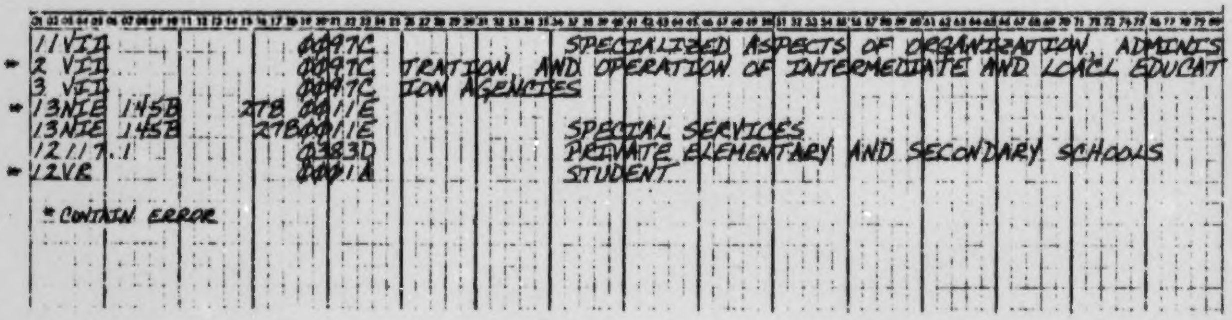
The text should be entered in a continuous string from card to card, as if column 26 on the continuation were really column 81 on the previous card.

To modify a term occurrence already contained on the system generated transaction file, use the same format as for the "1" card, substituting a "*U*" in column 1. Leave column 2 blank if the source type is correct; substitute the correct source type when the one specified in the transaction file is incorrect. If necessary, enter the modified term text in columns 37-80. (If the term text is correct, leave columns 37-80 blank.) If the error occurred on one of the continuation cards and the source type as well as the first 44 characters of the term is correct, the "U" card need not be entered. The format for correcting the text contained on the continuation cards is identical to that used for adding new text. If text changes do not change the length of the portion being modified, only the card for the error portion need be entered in the next edit run.

Error entries may be edited out of the system generated transaction file by using a *delete* transaction. Column 1 of the delete card contains a *D*. Columns 3-25 contain the occurrence identifier. The remainder of the delete card is left blank.

The following examples illustrate the use of the various transaction types in entering and then editing occurrences before running the actual update procedure.

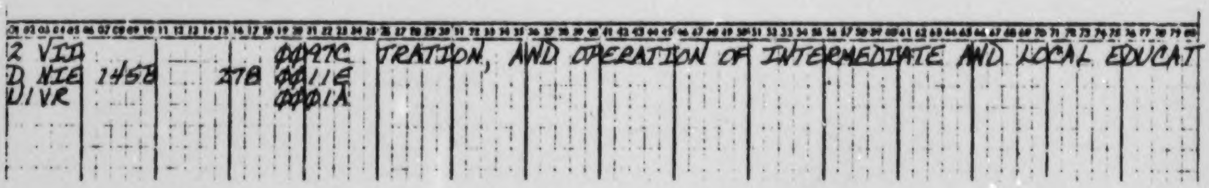
Initial execution of edit procedure:



```
 11VII               0097C          SPECIALIZED ASPECTS OF ORGANIZATION, ADMINIS
*2 VII               0097C TRATION AND OPERATION OF INTERMEDIATE AND LOACL EDUCAT
 3 VII               0097C ION AGENCIES
*13NIE 145B      27B 0011E
 13NIE 145B       27B0011E          SPECIAL SERVICES
 12117.1             0383D          PRIVATE ELEMENTARY AND SECONDARY SCHOOLS
*12VR                0001A          STUDENT

 * CONTAIN ERROR
```

Next execution of edit procedure:



```
2 VII               0097C TRATION, AND OPERATION OF INTERMEDIATE AND LOCAL EDUCAT
D NIE 145B      27B 0011E
U1VR                0001A
```

Running the Edit Procedure

If the transactions were generated on cards and you are building the *first version* of the system generated transaction file, submit the following run sequence:

```
//      job card
//EDASES  EXEC  PROC=EDAPES
//ES1.SORTIN  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk and you are building the *first version* of the system generated transaction file, submit the following run sequence:

```
//      job card
//EDASES  EXEC  PROC=EDAPES
//ES1.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where *name* is the fully qualified name of the data set containing the transactions.

To perform *additional edits* on the data entered, it is necessary to make two changes to the procedure when submitting the new transactions. Procedure modifications are made by changing symoblic parameters on the EXEC card. The applicable symbolic parameters are:

CVER=*n*	where *n* is the current version of the system generated transaction file.
NVER=*n+1*	where *n+1* is the new version of the system generated transaction file to be created.
EDITOLD=	where a blank indicates that a previous version of the update file is being edited (i.e., nullifies the dummy parameter on the old master DD statement).

Using card input, the run sequence for a second edit run would be:

```
//      job card
//EDASES  EXEC  PROC=EDAPES,CVER=1,NVER=2,EDITOLD=
//ES1.SORTIN  DD  *
     ...transaction cards...
/*
```

If you wish to edit more than one batch of data* at the same time (e.g., build and edit a separate system generated transaction file for each of two different handbooks), the symbolic parameter *BATCH* must be changed as in the following run sequence:

```
//      job card
//EDASES  EXEC  PROC=EDAPES,BATCH=B
//ES1.SORTIN  DD  *
     ...transaction cards...
/*
```

---

*Two source term files have been used in the Thesaurus/Glossary system in order to separate subject matter terms from the remainder of the terms. Subject matter terms must therefore be edited separately and input to the special subject matter entry procedure.

Subsequent edit runs must contain the same batch identifier as used in the initial edit run:

```
//      job card
//EDASES  EXEC  PROC=EDAPES,BATCH=B,CVER=1,
//              NVER=2,EDITOLD=
//ES1.SORTIN  DD  *
     •••transaction cards•••
/*
```

The procedure contains the following default values for symbolic parameters:

```
BATCH=A
CVER=
NVER=1
EDITOLD='DUMMY,'
```

Running the Entry Procedure

Two source term files have been used in the Thesaurus/Glossary System in order to separate subject matter terms from the remainder of the terms when printing the glossary. Separate procedures are used for entering occurrences to the main source term file and to the subject matter source term file. Assuming the occurrences are to be added to the *main* source term file, submit the following run sequence when the current version of the system generated transaction file has been edited to your satisfaction.

```
//      job card
//EDASIS  EXEC  PROC=EDAPIS,CVER=n
```

where *n* represents the final edited version of the system generated transaction file.

If you wish to add the occurrences to the *subject matter* source term file, submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMIS,CVER=n
```

If you have been working with multiple batches, you must specify the correct batch:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMIS,BATCH=b,CVER=n
```

If you do not want a Source Term Change Report, specify *REPORT='DUMMY,'* as follows:

```
//      job card
//EDASIS  EXEC  PROC=EDAPIS,CVER=n,REPORT='DUMMY,'
```

The procedure contains the following default values for symbolic parameters:

```
BATCH=A
CVER=1
REPORT=
```

Abend Recovery Procedures

If the run terminates abnormally, check the messages in the JCL listing at the beginning of the output against the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedure. Override DD statements can be added to your run or symbolic parameters changed on the EXEC card to correct the problem. It is possible that during a failed *entry* run a partially updated version of the master file may have been created and cataloged. It will be necessary to check the JCL listing at the beginning of the output to determine whether a new version of the file was cataloged and whether the recovery step successfully deleted the new version when the job failed. If a new version was not deleted, the symbolic parameter specifying the version to be updated must be changed, as in the example below:

```
//      job card
//EDASIS  EXEC  PROC=EDAPIS,CVER=n,GENS='(-1)'
```

8 - ADD NEW SOURCE TERMS

If a new version of the system generated transaction file is cataloged during a failed *edit* run, use the procedure as usual, specifying the good file in CVER and adding 2 rather than 1 to get the value for NVER.

Summary Checklist

Step 1: Select terms for inclusion from the source documents.

Step 2: Prepare edit transactions.

Step 3: Submit transaction edit job.

Step 4: Review Transaction Edit List to make sure all system generated transactions have been built as desired. If errors are found, generate edit update transactions.

Step 5: Resubmit edit job. (Steps 4 and 5 are repeated until all transactions appear on the edit list in desired form.)

Step 6: Submit entry job.

SECTION IID: HOW TO UPDATE THE SOURCE TERM FILE

Generating Transactions

Nine types of transactions are available for updating the source term file. The glossary structure code may be updated, cross-references may be added or deleted, the occurrence identifier may be modified or an occurrence deleted, the text of a term and the source type may be modified, and the entire contents of the record for a term may be listed or deleted.*

The following format is used *to modify the glossary structure code*:

Column Numbers	Field Description	Instructions
1-2	transaction identifier	Enter *GC*.
3-7	term identifier**	Right justify. Blank fill.
8-25		Leave blank.
26-45	classification portion of code	Left justify. Blank fill. Must be identical to a code in the classification schedules.
46-55	glossary portion of code	Left justify. Blank fill.
56-80		Leave blank.

If the source term is identical to a controlled vocabulary term, the source term's glossary structure code must be identical to the controlled vocabulary term's classification code (i.e., the classification portion of the code is identical and the glossary portion of the code is blank).

---

*Instructions for combining variant spellings of a term under a single spelling are contained in Appendix K, Support System.

**The term identifier appears in parentheses at the end of the entry for the term on the Glossary Report.

Glossary cross-references are added or deleted* with the following format:

Column Numbers	Field Description	Instructions
1-2	transaction identifier	*AX* to add a cross-reference. *DX* to delete a cross-reference.
3-7	term identifier	Right justify. Blank fill.
8-25		Leave blank.
26-80	cross-reference	Left justify. Blank fill.

Changing the text of a source term uses a format identical to that used for cross-references. Three cards are necessary to change the text of a source term. The transaction identifier for the first card is "*M1*," for the second "*M2*," and for the third "*M3*." The new text for the term is placed in columns 26-80, continuing from one card to the next as if column 26 on the continuation card were column 81 on the prior card. If the term does not continue to all three cards, submit the remaining cards with blanks in columns 26-80.

In order to change or delete data associated with a particular occurrence of a term, it is necessary to obtain the occurrence identifier. This can be done by submitting a list transaction for the term. The *list* transaction contains "*LT*" in columns 1-2 and the term identifier in columns 3-7. The remainder of the card is left blank.

To *change the source type* for a particular occurrence, the following format is used:

---

*Glossary cross-references are described in the Introduction to the Glossary of Education Terminology. Unlike thesaurus references, there is no automated facility for reciprocating glossary cross-references.

Column Numbers	Field Description	Instructions
1	transaction identifier	Enter *T*.
2	source type	Enter new source type. (See page IIC-1 for a list of the source type specifications.)
3-7	term identifier	Right justify. Blank fill.
8-25		Leave blank.
26-41	document identifier*	Left justify. Blank fill.
42-45	page number	Right justify. Zero fill.
46-48	sequence identifier	Left justify. Blank fill.
49-80		Leave blank.

To *delete an occurrence* of a term, use the format given above, substituting "*DR*" in columns 1-2.

To *change an occurrence identifier*, use the format given above, substituting "*MR*" in columns 1-2, placing the current occurrence identifier in columns 26-48 as given and placing the new occurrence identifier in columns 49-71 as follows:

Column Numbers	Field Description	Instructions
49-64	new document identifier*	Left justify. Blank fill.
65-68	new page number	Right justify. Zero fill.
69-71	new sequence identifier	Left justify. Blank fill.

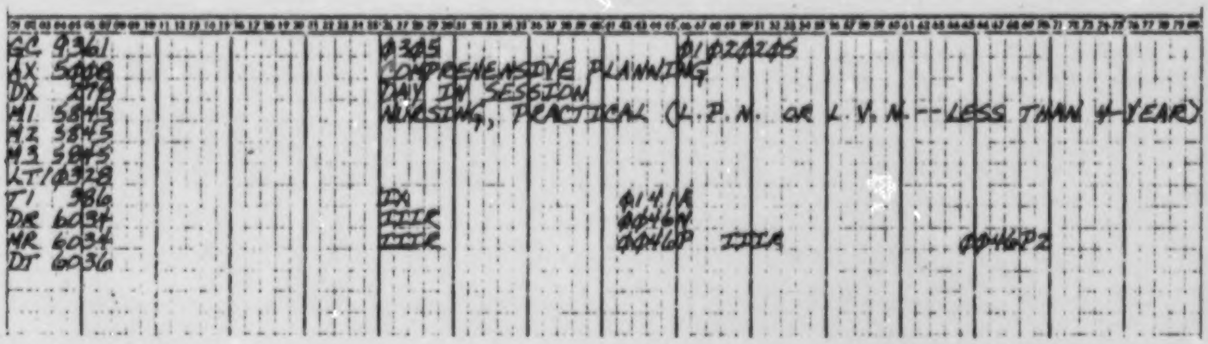
---

*The document identifier for survey instruments is formatted as follows:
The first 4 columns = agency, which is left justified and blank filled.
The next 8 columns = the form number, which is left justified and blank filled.
The last 4 columns = the edition date, which is right justified and blank filled.

4 - SOURCE TERM UPDATE

To *delete a source term* completely, specify "*DT*" in columns 1-2 and the term identifier in columns 3-7, leaving the remainder of the card blank.

The following examples illustrate each of the transactions for updating the source term file:



```
GC 9361                  0345                 01020245
AX 5008                  COMPREHENSIVE PLANNING
DX  278                  DAY IN SESSION
M1 5845                  NURSING, PRACTICAL (L.P.N. OR L.V.N.--LESS THAN 1 YEAR)
M2 5845
M3 5845
KT10328
T1  986                  IX             01414A
DR 6034                  IIIR           0046N
MR 6034                  IIIR           0046P  IIIA               0046P2
DT 6036
```

Restrictions

When a new term is added to the source term file, the computer system fills its glossary structure code with 9's. Any subsequent update must conform to the following restrictions.

- The classification portion of any glossary structure code must be identical to a code in the classification schedules.
- If a source term is identical to a controlled vocabulary term, its glossary structure code must be identical to the controlled vocabulary term's classification code (i.e., the classification portion must be identical and the glossary portion must be blank).
- If a source term is not identical to a controlled vocabulary term, the glossary portion of its glossary structure code must be specified (i.e., non-blank).

Running the Update Procedure for the Main Source Term File

Two source term files have been used in the Thesaurus/Glossary System in order to separate subject matter terms from the remainder of the terms when printing the Glossary Report. A different procedure must be used to update the subject matter source term file. The use of this procedure is described in the next subsection.

If the transactions were generated on cards, submit the following run sequence to update the *main* source term file:

```
//      job card
//EDASUS  EXEC  PROC=EDAPUS
//US2.SORTIN  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASUS  EXEC  PROC=EDAPUS
//US2.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

If text change* transactions are submitted, the following run sequence must be submitted:

```
//      job card
//EDASUS  EXEC  PROC=EDAPUS,TXTUPDT=
//US2.SORTIN  DD  *
     ...transaction cards...
/*
//EDASIS  EXEC  PROC=EDAPIS,GEN2='(+2)',GENS='(+1)'
```

If only list transactions are submitted, the following run sequence may be submitted:

```
//      job card
//EDASUS  EXEC  PROC=EDAPUS,LTONLY='DUMMY,'
//US2.SORTIN  DD  *
     ...transaction cards...
/*
```

---

*Changing the text of a source term requires running two procedures. Nullifying the symbolic parameter, TXTUPDT (i.e., setting it to a blank), allows the first procedure to create the transactions required by the second procedure.

Running the Update Procedure for the Subject Matter Source Term File

If the transactions were generated on cards, submit the following run sequence to update the *subject matter* source term file:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUS
//US2.SORTIN  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUS
//US2.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

If text change transactions are submitted, the following run sequence must be submitted:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUS,TXTUPDT=
//US2.SORTIN  DD  *
     ...transaction cards...
/*
//EDASIM  EXEC  PROC=EDAPSMIS,GEN2='(+2)',GENSM='(+1)'
```

If only list transactions are submitted, the following run sequence may be submitted:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUS,LTONLY='DUMMY,'
//US2.SORTIN  DD  *
     ...transaction cards...
/*
```

Correcting Transaction Errors

No updates will be performed until all transactions submitted in the run have successfuly passed the verification procedures. If any transaction fails verification, a Transaction Error Report will be produced.

The Transaction Error Report lists three items of information for each rejected transaction. The contents of the transaction card are listed so that it can be located and corrected. Following the transaction card image is a numeric error type accompanied by a short error message.

Use the number specified in the error type to reference the appropriate section of Appendix C, Error Messages, to determine the cause of the error and the action needed to correct the problem.

When all problems have been traced, resubmit the run with the corrected transaction file. If the verification fails again, repeat the process above.

Checking the Change Report

When all transactions have been verified, the source term file is updated, producing a report of all changes made and listing the contents of all records for which an "LT" transaction was submitted. Review the Source Term Change Report(s) (two reports will be produced if text changes were made) to make sure all changes were made as desired.

Abend Recovery Procedures

If the run terminates abnormally, check the messages in the JCL listing at the beginning of the output against the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedure. Override DD statements can be added to your run or symbolic parameters changed on the EXEC card to correct the problem. It is possible that a partially updated version of the master file may have been created and cataloged during the failed run. This may or may not be apparent in a subsequent run, depending on the type of updates being performed. It will be necessary to check the JCL listing at the beginning of the output to determine whether any new version(s) of the file were cataloged and whether the recovery step successfully deleted the new version(s) when the job failed. If new version(s) were not deleted, the symbolic parameter specifying the version to be updated must be changed.

The following example illustrates the run sequence that would be submitted if the disk pack contained insufficient space* for the second version created as a result of text updates, providing the new versions of the file were not deleted when the job failed.

```
//      job card
//EDASUS  EXEC  PROC=EDAPUS,GENS='(-2)',TXTUPDT=
//US2.SORTIN  DD  *
     ...transaction cards...
/*
//EDASIS  EXEC  PROC=EDAPIS,GEN2='(+2)',GENS='(+1)'
```

Summary Checklist

Step 1: Check all proposed changes against the current version of the Glossary Report or a current Source Term Change Report.

Step 2: Prepare update transactions.

Step 3: Submit source term update job.

Step 4: If a Transaction Error Report is returned, check error messages and take the appropriate corrective action.

Step 5: Resubmit job.

Step 6: Repeat steps 4 and 5 as necessary.

Step 7: Check the Source Term Change Report to make sure all modifications were performed as desired.

---

*If the disk pack contained insufficient space, be sure that enough space is available by deleting old data sets before resubmitting the run. If the new, partially updated versions are deleted during this clean-up process, submit the run in its original form.

SECTION IIE: HOW TO UPDATE DEFINITIONS

Generating Transactions

Five types of transactions are available for updating the definition file. Some transactions perform more than one function. Sections of the definition text may be updated as well as new definitions added or old deleted. (If a large quantity of definitions is being added, the 80 column transaction is inconvenient. The format for a transaction containing the entire text of a definition in a single record is described in Appendix K: Support System.) Scope notes may be added or modified. Flags may be set indicating the status of the definition text (e.g., not defined), the sequence for printing multiple definitions for the same term, and whether a particular definition is preferred over others. If necessary, the occurrence identifer may be modified. In addition, the contents of the definition record may be listed for reference without making any changes. The definition text will be listed in transaction card images to facilitate changing particular sections of the text.

Before generating transactions to change the text of a definition, a *list* transaction must be run for the *definition*. The format of the definition list transaction is:

Column Numbers	Field Description	Instructions
1-2	transaction identifier	Enter *LD*.
3-18*	document identifier	Left justify. Blank fill.
19-22	page number	Right justify. Zero fill.
23-25	sequence identifier	Left justify. Blank fill. Assigned in order of appearance on page. Column 23 is generally alphabetic. Column 24 is generally numeric or blank. Column 25 is generally blank, but is available to insert items that may have been missed.
26-80		Leave blank.

---

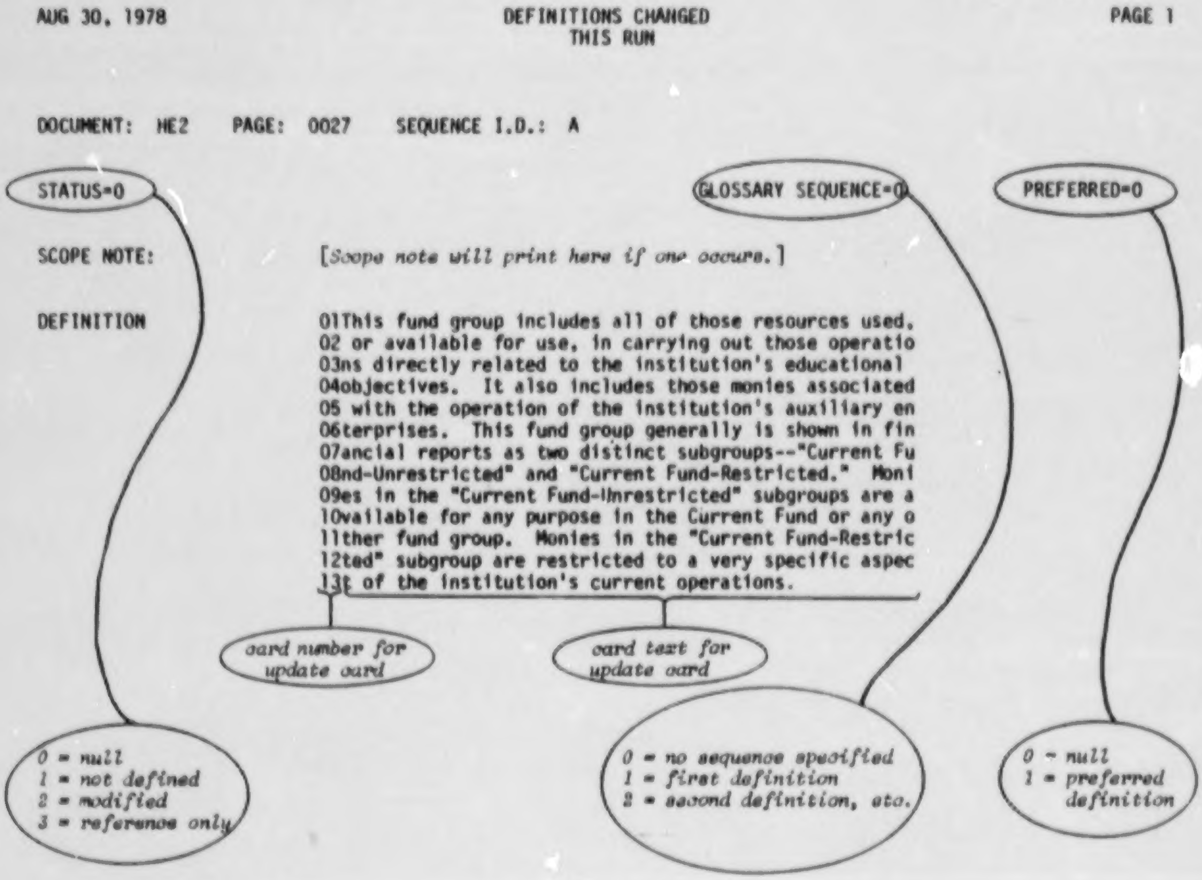
*For survey instruments, the computer adds punctuation during the printing process. To assure correct placement of this added punctuation, the document identifier must be formatted as follows:

Column Numbers	Field Description	Instructions
3-6	agency	Left justify. Blank fill.
7-14	form number	Left justify. Blank fill.
15-18	edition date	Right justify. Blank fill. No punctuation (i.e., *mmyy* where *mm* is the month and *yy* the year). Use "D" for draft.

2 - DEFINITION UPDATE

To obtain the page number and sequence identifier, it may be necessary to run a "list term" transaction to determine the exact location of the particular definition in the source document. See Section IID: How to Update Source Terms for instructions on how to list a term.

The following sample definition listing has been annotated to identify information referenced in the remaining instructions.



```
AUG 30, 1978                    DEFINITIONS CHANGED                     PAGE 1
                                     THIS RUN

DOCUMENT:  HE2    PAGE:  0027    SEQUENCE I.D.:  A

STATUS=0                                      GLOSSARY SEQUENCE=0     PREFERRED=0

SCOPE NOTE:                 [Scope note will print here if one occurs.]

DEFINITION                  01This fund group includes all of those resources used,
                            02 or available for use, in carrying out those operatio
                            03ns directly related to the institution's educational
                            04objectives.  It also includes those monies associated
                            05 with the operation of the institution's auxiliary en
                            06terprises.  This fund group generally is shown in fin
                            07ancial reports as two distinct subgroups--"Current Fu
                            08nd-Unrestricted" and "Current Fund-Restricted."  Moni
                            09es in the "Current Fund-Unrestricted" subgroups are a
                            10vailable for any purpose in the Current Fund or any o
                            11ther fund group.  Monies in the "Current Fund-Restric
                            12ted" subgroup are restricted to a very specific aspec
                            13t of the institution's current operations.
```

- To *modify* a portion of the *definition text*, specify "*SD*" in columns 1-2. Columns 3-25 identify the occurrence identifier as in the format for the "LD" transaction given previously. Columns 26-27 contain the card number given on the Definition Change Report when the definition was listed. Columns 28-80 contain the revised text. If the revised text is not the same length as the portion of text being replaced, the remainder of the text following the modified portion must also be updated in the same fashion. Note that the text of the definitions has been entered in upper and lower case characters and therefore should be updated in upper and lower case.

- To *add* a *definition* to the file, the *SD* transaction is also used. Up to 19 cards are allowed for any single definition. (For definitions that are more than 970 characters long, the computer system will insert three periods in the last three characters to indicate that the definition is incomplete.) When continuing the text from one card to the next, enter the words as if column 28 on the continuation card were column 81 on the prior card. Note that the text of the definitions has been entered in upper and lower case characters.

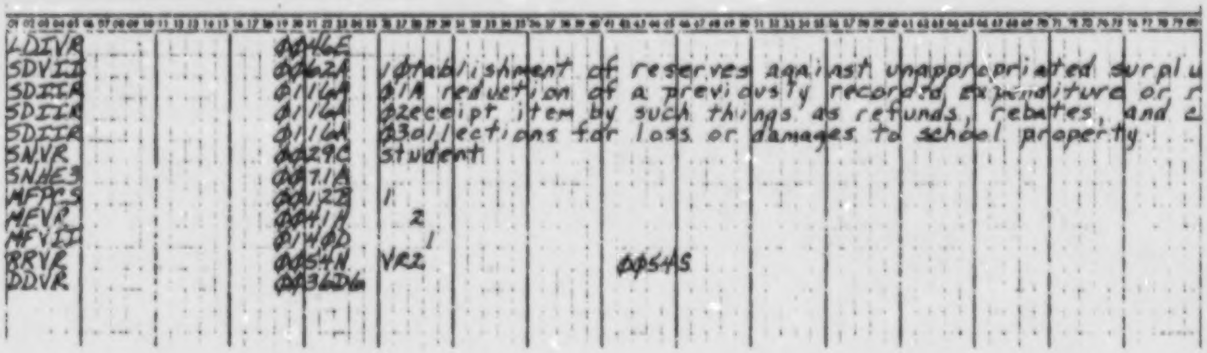
- Definition *scope notes* are *added*, *modified*, or *deleted* with the same transaction. Specify "*SN*" in columns 1-2. Columns 3-25 identify the location in the source document (i.e., the occurrence identifier) as in the previous format. Columns 26-80 contain the new or revised scope note. (Note that definition scope notes may be only 55 characters long.) If you wish to delete a scope note, leave columns 26-80 blank. Definition scope notes have been entered in upper and lower case characters.

- To *modify* any of the three definition *flags*, specify "*MF*" in columns 1-2. Columns 3-25 contain the occurrence identifier as in previous definition transactions. To modify the status flag, place the desired code in column 26. The possible codes along with their meanings are given in the sample definition listing provided previously. To modify the print sequence for multiple definitions for the same term, enter the new sequence number, right justified, in columns 27-28. If more than one definition has the same sequence number, no error will occur but the sequencing in the Glossary Report will be arbitrary. Place a "1" in column 29 to identify a definition as preferred. To remove a preferred specification, place a "0" in column 29. *Leave blank the columns for any flags not being modified.*

- To *change* the *occurrence identifier*, specify "*RR*" in columns 1-2. The current occurrence identifier is placed in columns 3-25 as previously. The new occurrence identifier is formatted in the same way and placed in columns 26-48 (i.e., columns 26-41 =document identifier, columns 42-45=page number, and columns 46-48=sequence identifier; for survey instruments, columns 26-29 =agency, columns 30-37=form number, and columns 38-41=edition date).

- To *delete a definition*, specify "*DD*" in columns 1-2, and the occurrence identifier in columns 3-25 as previously described. Leave the remainder of the card blank.

The following examples illustrate the format of each of these transaction types:



```
LDIVR               00116E
SDVII               00062A 10tablishment of reserves against unappropriated surplu
SDIIR               01116A 01A reduction of a previously recorded expenditure or r
SDIIR               01116A 02eceipt item by such things as refunds, rebates, and c
SDIIR               01116A 03ollections for loss or damages to school property
SNVR                00029C student
SNHE3               00071A
MFPRS               00122Z 1
MFVR                00041A   2
MFVII               01140D    1
RRVR                00054N VR2               00545
DDVR                00036D6
```

Running the Update Procedure for the Main Definition File

Two definition files have been used in the Thesaurus/Glossary System in order to separate subject matter terms and their definitions from the remainder of the terms when printing the reports for the glossary. A separate set of procedures must be used to update the subject matter definition file. These procedures are described in the next subsection.

If the transactions were generated on cards, submit the following run sequence to update the *main* definition file:

```
//      job card
//EDASUD  EXEC  PROC=EDAPUD
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASUD  EXEC  PROC=EDAPUD
//UD1.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

If occurrence identifiers are being modified, two procedures are required to delete the old occurrence and subsequently add the new one.

```
//      job card
//EDASUD  EXEC  PROC=EDAPUD
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
//EDASSS  EXEC  PROC=EDAPSD
```

The OCC parameter must be nullified in order to allow generation of the file used as a transaction file by the second procedure.

If only "LD" transactions are to be run (i.e., no updates are to be performed), submit the following run sequence:

```
//      job card
//EDASUD  EXEC  PROC=EDAPLD
//LD1.SORTIN  DD  *
     ...transaction cards...
/*
```

Running the Update Procedure for the Subject Matter Definition File

If the transactions were generated on cards, submit the following run sequence to update the *subject matter* definition file:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUD
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
```

If the transactions were generated on disk, submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUD
//UD1.SORTIN  DD  DSN=name,DISP=OLD,UNIT=3330
```

where "*name*" is the fully qualified name of the data set containing the transactions.

If occurrence identifiers are being modified, two procedures are required to delete the old occurrence and subsequently add the new one.

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMUD
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
//EDASSS  EXEC  PROC=EDAPSMSD
```

The OCC parameter must be nullified in order to allow generation of the file used as a transaction file by the second procedure.

If only "LD" transactions are to be run (i.e., no updates are to be performed), submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMLD
//LD1.SORTIN  DD  *
     ...transaction cards...
/*
```

Checking the Change Report

The contents of the entire definition record will be listed for any record changed as well as for those records for which an "LD" transaction was submitted. Review each listing to see that all changes were made as desired.

Abend Recovery Procedures

If the run terminates abnormally, look up the messages in the JCL listing at the beginning of the output in the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedure. Override DD statements can be added to your run or symbolic parameters changed on the EXEC card to correct the problem. If insufficient space exists for the master definition file, it will be necessary to create a new definition file with a new permanent data set name to hold the update definition file until the old file can be deleted and reallocated with additional space.

The following example shows the two jobs necessary to enlarge the definition file beyond the capacity currently allowed.

To build the updated definition file, submit the following run sequence:

```
//      job card
//EDASUD  EXEC  PROC=EDAPUD
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
//UD2.M4NEW  DD  DSN=EDA.D04.TEMPDEF,DISP=(,CATLG),UNIT=3330,
//                VOL=SER=D03042,SPACE=(CYL,nn,,CONTIG),
                  DCB=DSORG=IS
```

where *nn* is the number of cylinders needed to store the new definition file along with its index.

To copy the updated definition file into an expanded version of the permanent definition file, submit the following run sequence:

```
//      job card
//EDASDEL   EXEC  PGM=IEFBR14
//DDO       DD   DSN=EDA.D04MDEF,DISP=(OLD,DELETE),UNIT=3330,
//               VOL=(PRIVATE,RETAIN,,SER=D03042),DCB=DSORG=IS
//EDASBLD   EXEC  PGM=IEBISAM,PARM=COPY,REGION=250K
//SYSPRINT  DD   SYSOUT=A
//SYSUT1    DD   DSN=EDA.D04.TEMPDEF,DISP=OLD,UNIT=3330,
//               VOL=SER=D03042,DCB=DSORG=IS
//SYSUT2    DD   DSN=EDA.D04MDEF,DISP=(,CATLG),UNIT=3330,
//               VOL=SER=D03042,SPACE=(CYL,nn,,CONTIG),
//               DCB=DSORG=IS
```

where *nn* is the number of cylinders specified in the prior run.

Once the master definition file has been expanded, it is necessary on all subsequent updates to specify the new space on the update EXEC card as follows:

```
//      job card
//EDASUD  EXEC  PROC=EDAPUD,NEWSPAC=nn
//UD1.SORTIN  DD  *
     ...transaction cards...
/*
```

8 - DEFINITION UPDATE

Summary Checklist

Step 1: Check all proposed changes against the current contents of the glossary. An "LD" transaction may be run to obtain this information in Definition Change Report format.

Step 2: Prepare update transactions.

Step 3: Submit definition update job.

Step 4: Check the definition change report to make sure all modifications were performed as desired.

SECTION IIF: HOW TO PROTECT THE DATA BASE

Back-up Procedure

The thesaurus/glossary data base is stored on a private disk pack and the Data Management Center does not provide back-up services for private packs. It is therefore *necessary* to run the following back-up procedure *after any updates* are made to the data base.

```
//      job card
//EDASBK  EXEC  PROC=EDAPBKUP,DATE=mmdd
```

where *mmdd* represents the month and day when the back-up was run.

This procedure provides tape back-up for the VSAM user catalog (DSN=EDA.D04BCAT.Dmmdd) and the entire contents of the private pack (DSN=EDA.D04DISK.Dmmdd). (Old back-up tapes should be released by notifying the DMC Tape Librarian when they become outdated.)

Restoring the VSAM User Catalog

If for any reason the VSAM user catalog (DSN=EDA.D04CAT) is destroyed, run the following procedure:

```
//      job card
//EDASRC  EXEC  PROC=EDAPRCAT,DATE=mmdd
```

where *mmdd* represents the month and day of the most recent back-up.

Restoring the Data Base

If for any reason the private pack becomes unusable, ask DMC User Services to initialize a new pack with the old volume serial number and run the following procedure:

```
//      job card
//EDASRD  EXEC  PROC=EDAPRDSK,DATE=mmdd
```

where *mmdd* represents the month and day of the most recent back-up.

Note that if both the VSAM user catalog and the private pack need to be restored, *the catalog must be restored first.*

SECTION IIG: HOW TO PRINT THE FORMAL REPORTS

Printing the Classification Schedules

Submit the following run sequence:

```
//      job card
//EDASRC  EXEC  PROC=EDAPRC
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. If the name duplicates the name of a print tape that is still retained, the job will not run. The procedure contains the following default values:

```
#COPIES=03
DAYS=5
DELAYPT=CATLG
UNQ=2
```

The following run sequence would produce a print tape that would be retained for two weeks.

```
//      job card
//EDASRC  EXEC  PROC=EDAPRC,#COPIES=05,DAYS=14,DELAYPT=KEEP
```

2 - REPORT PRINTING

To initiate printing, run the following sequence:

```
//      job card
//EDASRC  EXEC  PGM=IEFBR14
//XEROX  DD  DSN=XEROX.EDAnn0x1,DISP=(,CATLG),UNIT=1600BPI
```

where *nn* equals the number of copies and *x* equals UNQ. For the above example DSN=XEROX.EDA05021.

For microfilm output, see example under "Printing the Glossary."

Printing the Thesaurus

Submit the following run sequence:

```
//      job card
//EDASRT  EXEC  PROC=EDAPRT
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. The procedure contains the following default values:

```
#COPIES=03
DAYS=5
DELAYPT=CATLG
UNQ=2
```

The following run sequence would produce eight reduced Xerox copies of the Thesaurus Report. The print tape would be retained for one week.

```
//      job card
//EDASRT  EXEC  PROC=EDAPRT,#COPIES=08,DAYS=7
```

For delayed printing,* DSN=XEROX.EDA*nn*0*x*2, where *nn* equals the number of copies specified and *x* is the value of UNQ.

---

*See example for printing the classification schedules for delayed reduced Xerox output or example for printing the glossary for microfiche output.

Printing the Thesaurus Index

Submit the following run sequence:

```
//      job card
//EDASRP  EXEC  PROC=EDAPRP
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. The procedure contains the following default values:

```
#COPIES=03
DAYS=5
DELAYPT=CATLG
UNQ=2
```

The following run sequence would produce one reduced Xerox copy of the Thesaurus Index. The print tape would be retained for five days.

```
//      job card
//EDASRP  EXEC  PROC=EDAPRP,#COPIES=01
```

For delayed printing,* DSN=XEROX.EDA*nn*0*x*3, where *nn* equals the number of copies specified and *x* is the value of UNQ.

---

*See example for printing the classification schedules for delayed Xerox output or example for printing the glossary for microfiche output.

Printing the Glossary Structure Display

Two source term files have been used in the Thesaurus/Glossary System in order to separate subject matter terms from the remainder of the terms when printing the reports associated with the glossary. To print the Glossary Structure Display for the *main* glossary, submit the following run sequence:

```
//      job card
//EDASRD  EXEC  PROC=EDAPRD
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. The procedure contains the following default values:

```
#COPIES=01
DAYS=5
DELAYPT=CATLG
UNQ=2
```

The following run sequence would produce one reduced Xerox copy of the Glossary Structure Display. The tape would be retained for five days. Another glossary structure display tape could still be cataloged.

```
//      job card
//EDASRD  EXEC  PROC=EDAPRD,UNQ=3
```

For delayed printing,* DSN=XEROX.EDA*nn*0*x*4, where *nn* equals the number of copies specified and *x* is the value of UNQ.

To print the Glossary Structure Display for the *subject matter* glossary, submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMRD
```

The data set name for delayed printing will be XEROX.EDA01027 if override values are not specified for #COPIES or UNQ.

---

*See example for printing the classification schedules for delayed Xerox output or example for printing the glossary for microfiche output.

Printing the Glossary

Two source term files have been used in the Thesaurus/Glossary System in order to separate subject matter terms from the remainder of the terms when printing the reports associated with the glossary. To print the Glossary Report for the *main* glossary, submit the following run sequence:

```
//      job card
//EDASRG  EXEC  PROC=EDAPRG
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. The procedure contains the following default values:

```
#COPIES=01
DAYS=5
DELAYPT=CATLG
UNQ=2
```

If microfilm output were desired, the following run sequence would produce a print tape that would be retained for three weeks.

```
//      job card
//EDASRG  EXEC  PROC=EDAPRG,DAYS=21,DELAYPT=KEEP
```

A sample report page, the tape, and a Computer Output Microfilm Printer Request for Service form need to be submitted to Production and Control to obtain microfiche output. The data set name for the tape will be XEROX.EDA*nn*0*x*5 where *nn* is the number of copies specified and *x* is the value of UNQ. The name for the example above would be XEROX.EDA01025.

For delayed Xerox output, see the example for printing the classification schedules.

To print the Glossary Report for the *subject matter* glossary, submit the following run sequence:

```
//      job card
//EDASSM  EXEC  PROC=EDAPSMRG
```

The data set name for delayed printing will be XEROX.EDA01028 if override values are not specified for #COPIES or UNQ.

Printing the Glossary Index

Two source term files have been used in the Thesaurus/Glossary System in order to separate subject matter terms from the remainder of the terms when printing the reports associated with the glossary. To print the Glossary Index for the *main* glossary, submit the following run sequence:

```
//      job card
//EDASRI  EXEC  PROC=EDAPRI
```

The following symbolic parameters have been provided in the cataloged procedure:

#COPIES=*nn*	where *nn* is the number of copies desired. Note that both digits must be specified (i.e., use "05" to indicate five copies).
DAYS=*d*	where *d* is the number of days the print tape is to be retained.
DELAYPT=KEEP	is used where the data are not to be printed immediately.
UNQ=*x*	where *x* is any number from 3-9.
THES=	the blank nullifies the parameter resulting in inclusion of thesaurus lead-in entries in the Glossary Index.

If printing of the output is to be delayed or microfilm is desired, DAYS and DELAYPT must be specified. UNQ is specified if the procedure is run more than once in close succession to assure that each print tape has a unique name. The procedure contains the following default values:

```
#COPIES=01
DAYS=5
DELAYPT=CATLG
UNQ=2
THES='DUMMY,'
```

The example below would produce two reduced Xerox copies of the Glossary Index, including thesaurus lead-in entries. The print tape would be retained for one week.

```
//      job card
//EDASRI  EXEC  PROC=EDAPRI,#COPIES=02,DAYS=7,THES=
```

The data set name for delayed printing* would be XEROX.EDA02026.

To print the Glossary Index for the *subject matter* glossary, submit the following run sequence:

```
//       job card
//EDASSM  EXEC  PROC=EDAPSMRI
```

The data set name for delayed printing will be XEROX.EDA01029 if override values are not specified for #COPIES or UNQ.

---

*See classification schedules printing for delayed Xerox output or glossary printing for microfiche output.

Abend Recovery Procedures

If the run terminates abnormally, check the messages in the JCL listing at the beginning of the output against the IBM systems manual to determine the cause of the abnormal termination.

Appendix D, Procedure Listings, contains a full listing of the symbolic parameters and stepnames used in the cataloged procedures. The most likely reason for abnormal termination of a report run is that the name specified for the print tape duplicates the name of a print tape that is still retained. In this case, specify a value for UNQ different from that on the retained print tape.

If the job terminated abnormally due to general systems problems, it may be resubmitted without change.

SECTION III: SYSTEM MAINTENANCE

Introduction

The Thesaurus/Glossary System has been implemented for batch use, utilizing the extended* Mark IV language. Standard procedures have been cataloged for updating each of the master files, backing up the data base, and printing each of the formal reports. The update procedures also produce reports to document the results of processing. A listing of each cataloged procedure is contained in Appendix D. A sample page of each report is exhibited in Appendix A.

A short discussion of each procedure along with a chart of the flow through each job is provided in this section.** All Mark IV requests have been documented and cataloged in the Office of Education's Mark IV library. A listing of each documented request is contained in Appendix J. (Appendix J is ordered alphabetically by request name.) The relationship between requests in an individual job step is illustrated in the flow charts contained in Appendix I.

The data base consists of six master files, a VSAM user catalog, and a control table. The classification schedules file exists as a VSAM cluster with an alternate index for use in normal processing. However, to simplify recovery in case of abnormal termination during update, the VSAM file is not updated directly. Update is performed on a sequential version of the classification schedules file which is cataloged as a generation data group.

---

*Frequent use has been made of the following special features: Table Look-up, Indexed Coordinated Files, Text Processing, Extended Transaction Processing, Extended Segment Processing, and Extended File Processing.

**See Section I for an overview of the system design and Section II for instructions on how to use the procedures.

The VSAM cluster is then reloaded from the latest generation of the sequential file. The thesaurus file and the two* source term files exist for both processing and update procedures as generation data groups. The two* definition files exist as ISAM files, and are not updated in placed. A new master file is temporarily built, and after successful completion of the update step, IEBISAM is used to copy the new file into the old data set. The numeric key to the source term files is computer generated. The control table for assuring the uniqueness of this key consists of a single entry Mark IV table that is updated at the end of each run that adds terms to either of the source term files.

A listing of each file definition and each transaction definition used in the system is provided in Appendix G. Appendix E identifies the procedures in which each file definition is used. Appendix F indexes each transaction definition to the job step(s) in which it is used. A description of each Mark IV table is contained in Appendix H. Additional requests that have been useful in building the data base are discussed in Appendix K.

---

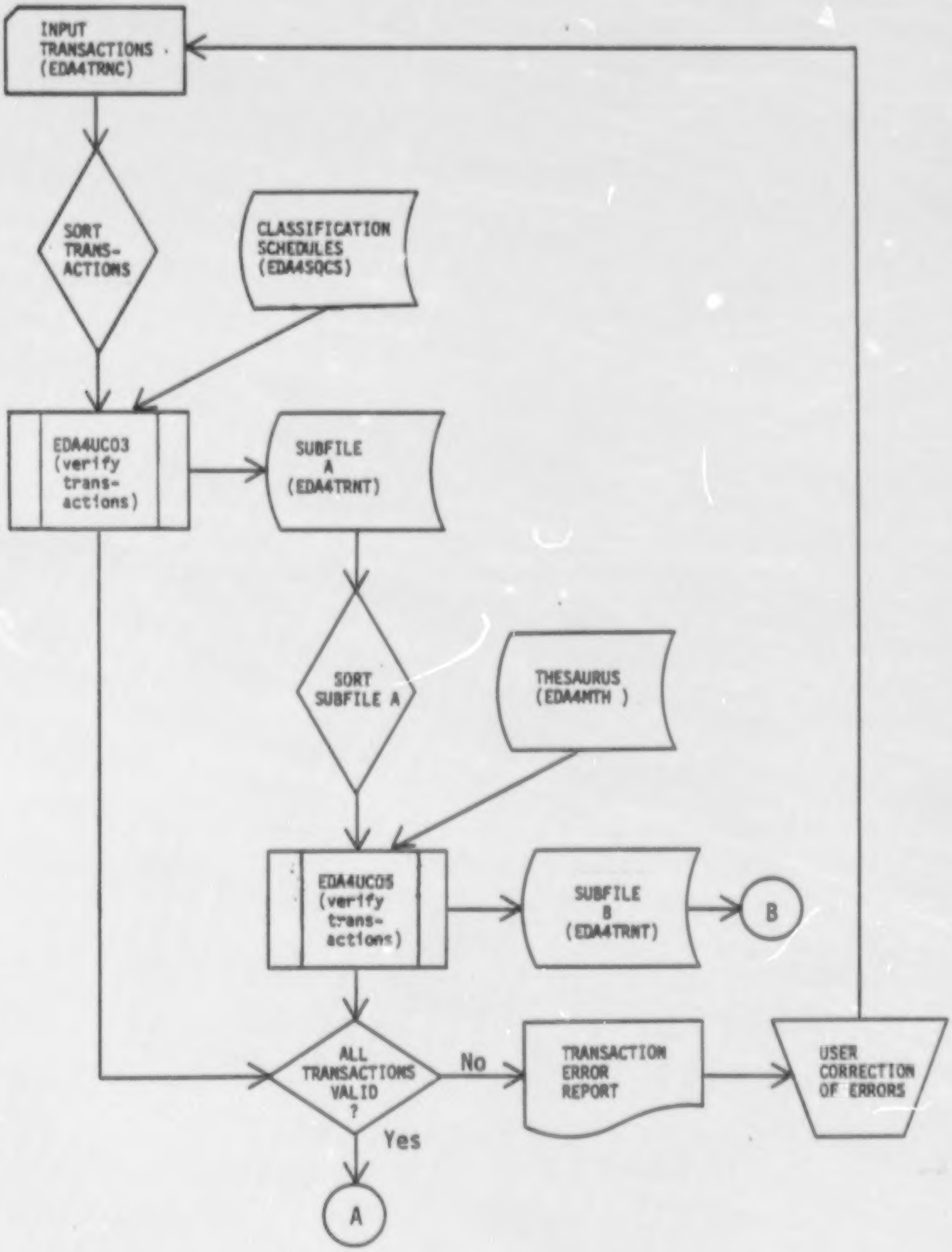
*Special versions of the source term and definition files have been built to separate subject matter terminology from the remainder of the data base.

Classification Schedules Update

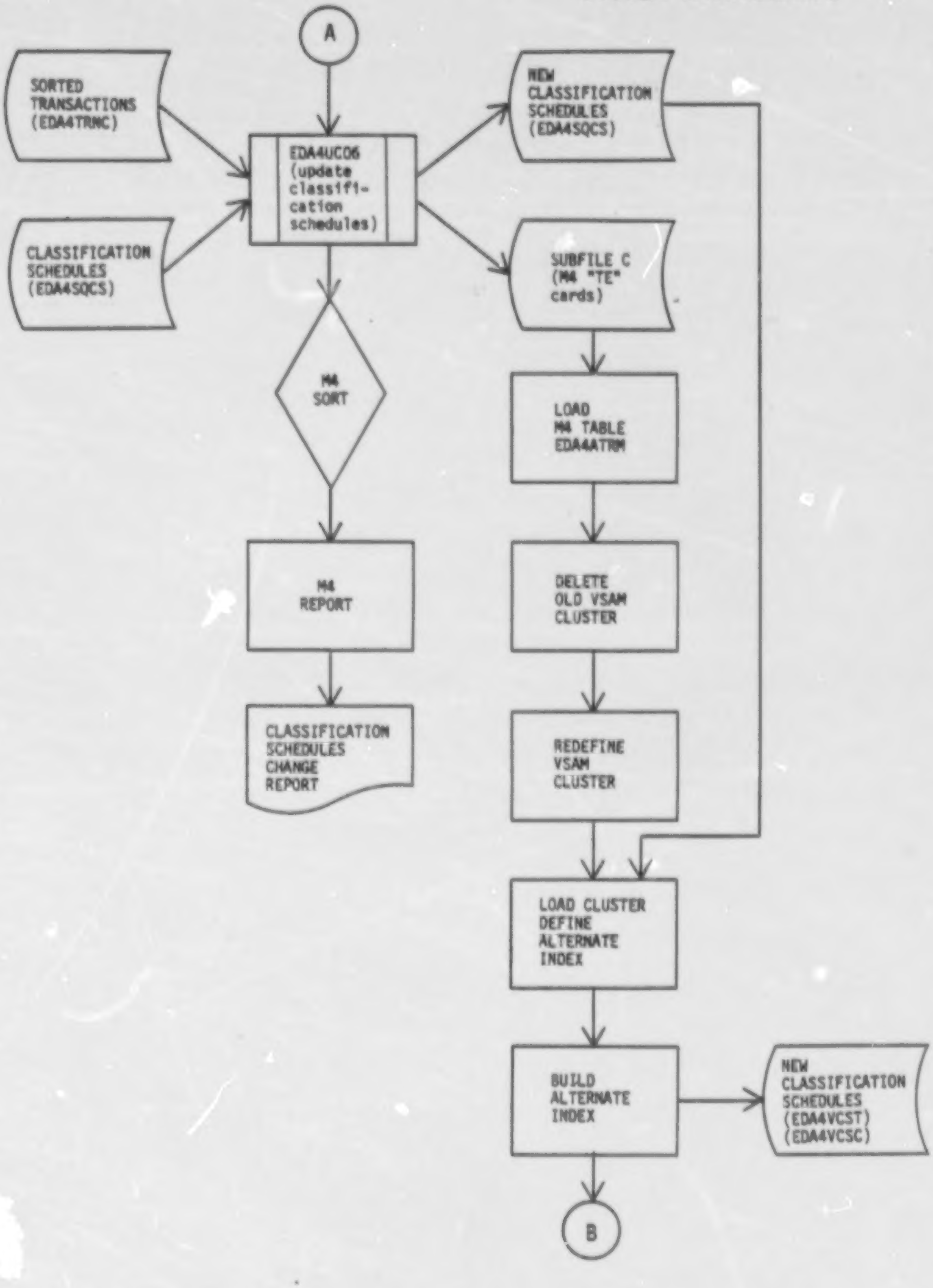
Updating the classification schedules is a multistep process involving verification of the update transactions against both the master classification schedules file and the master thesaurus file, update of the classification schedules file, reconciliation and update of the thesaurus file, and reconciliation and update of the source term file's glossary structure code. To ensure the integrity of the data base, all steps must be executed in the proper order as each is dependent on output from prior steps.

Transaction errors will result in termination of processing at the end of the verification routines and generation of Transaction Error Reports for each of the verification steps in which errors were encountered. In addition to testing the correctness of transactions, each of the verification steps performs transformations to create transactions appropriate for a later step in the process.

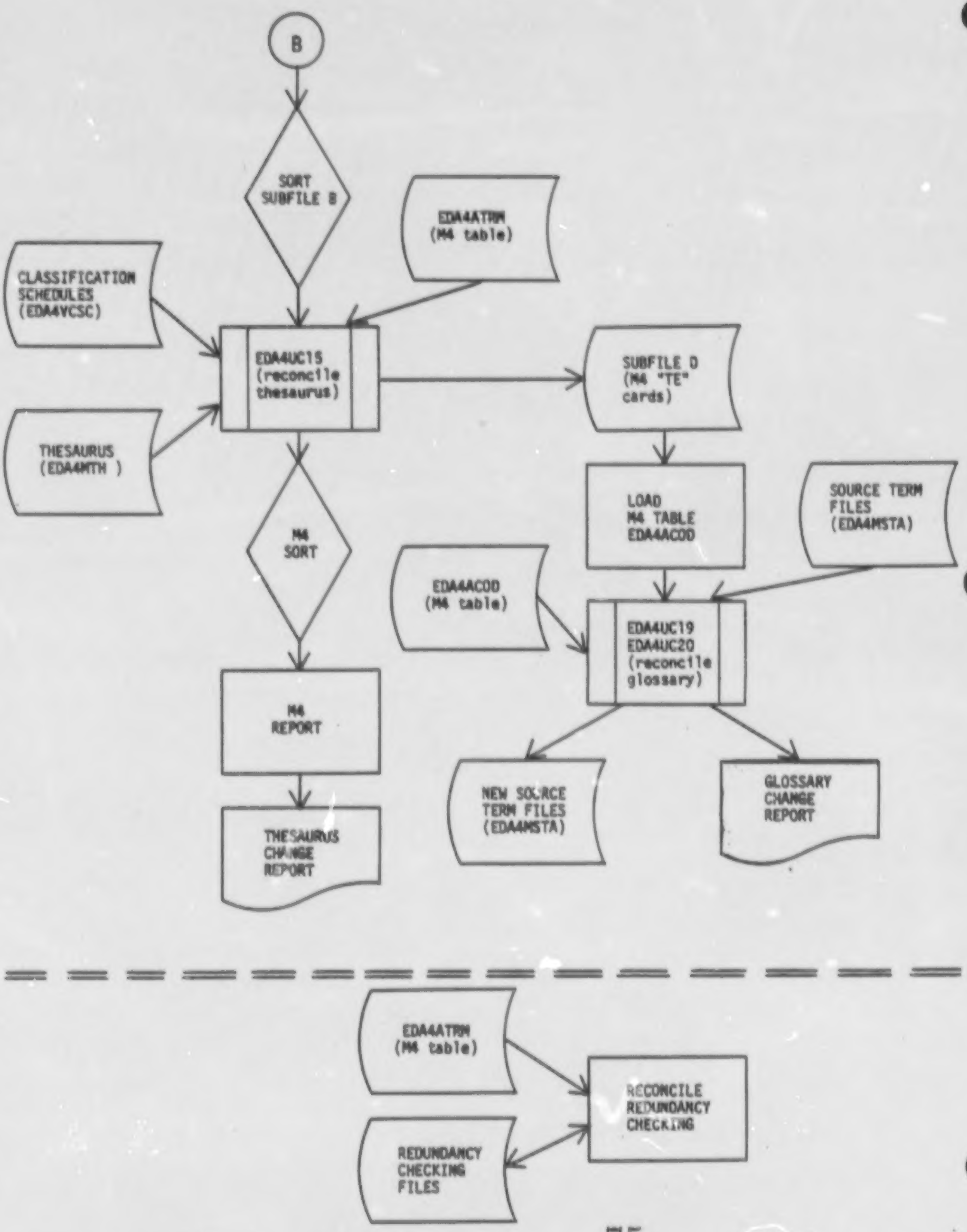
When all transactions are correct, the classification schedules file is updated and reloaded into the VSAM cluster. A Mark IV table is generated for use in reconciling the thesaurus and redundancy checking files. The thesaurus file is then reconciled to all changes made, producing a Mark IV table for use in reconciling the glossary. Finally, the source term file is updated, reconciling the glossary structure codes to the changes made in the other files. A change report is generated for each update step, indicating the disposition of all records affected by the update procedure.


INPUT TRANSACTIONS (EDA4TRNC)
SORT TRANS-ACTIONS
CLASSIFICATION SCHEDULES (EDA4SQCS)
EDA4UC03 (verify trans-actions)
SUBFILE A (EDA4TRNT)
SORT SUBFILE A
THESAURUS (EDA4MTH)
EDA4UC05 (verify trans-actions)
SUBFILE B (EDA4TRNT)
B
ALL TRANSACTIONS VALID ?
No
TRANSACTION ERROR REPORT
USER CORRECTION OF ERRORS
Yes
A

CLASSIFICATION SCHEDULES UPDATE


A
SORTED TRANSACTIONS (EDA4TRNC)
CLASSIFICATION SCHEDULES (EDA4SQCS)
EDA4UC06 (update classification schedules)
NEW CLASSIFICATION SCHEDULES (EDA4SQCS)
SUBFILE C (M4 "TE" cards)
M4 SORT
M4 REPORT
CLASSIFICATION SCHEDULES CHANGE REPORT
LOAD M4 TABLE EDA4ATRM
DELETE OLD VSAM CLUSTER
REDEFINE VSAM CLUSTER
LOAD CLUSTER DEFINE ALTERNATE INDEX
BUILD ALTERNATE INDEX
NEW CLASSIFICATION SCHEDULES (EDA4VCST) (EDA4VCSC)
B

Classification Schedules Update

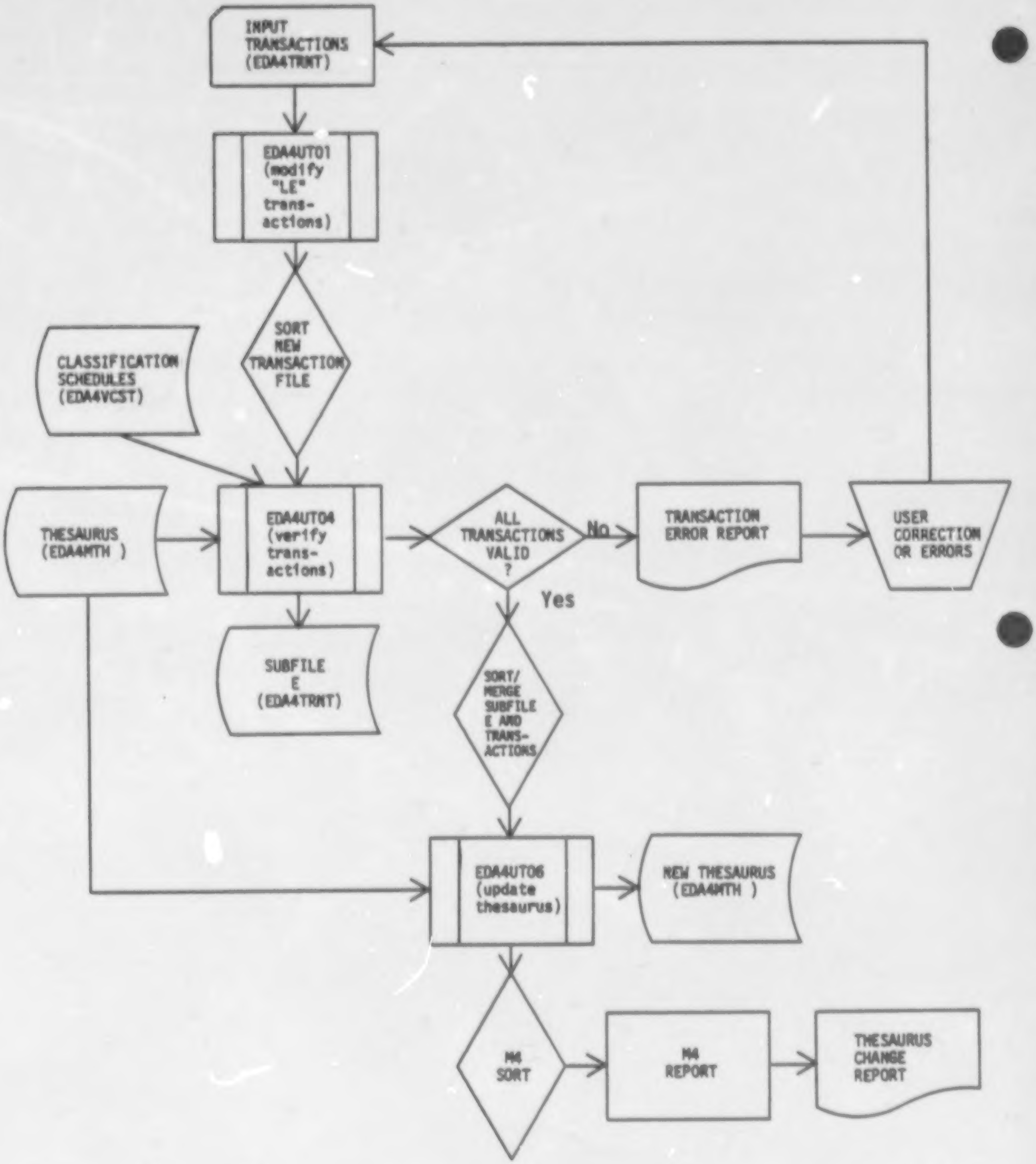

B
SORT SUBFILE B
EDA4ATRM (M4 table)
CLASSIFICATION SCHEDULES (EDA4VCSC)
EDA4UC15 (reconcile thesaurus)
THESAURUS (EDA4MTH)
SUBFILE D (M4 "TE" cards)
M4 SORT
LOAD M4 TABLE EDA4ACOD
SOURCE TERM FILES (EDA4MSTA)
EDA4ACOD (M4 table)
EDA4UC19 EDA4UC20 (reconcile glossary)
M4 REPORT
NEW SOURCE TERM FILES (EDA4MSTA)
GLOSSARY CHANGE REPORT
THESAURUS CHANGE REPORT
EDA4ATRM (M4 table)
RECONCILE REDUNDANCY CHECKING
REDUNDANCY CHECKING FILES

CLASSIFICATION SCHEDULES UPDATE

Thesaurus Update

Two types of entries or records occur in the thesaurus. Records for controlled vocabulary entries are *created* only during classification schedules update. These records are distinguished by a numeric key assigned in the classification schedules. Records for lead-in entries are created during thesaurus update. Lead-in entry records have an alphabetic key consisting of the first 20 characters of the lead-in entry term. Both types of records contain fields that may be modified during thesaurus update.

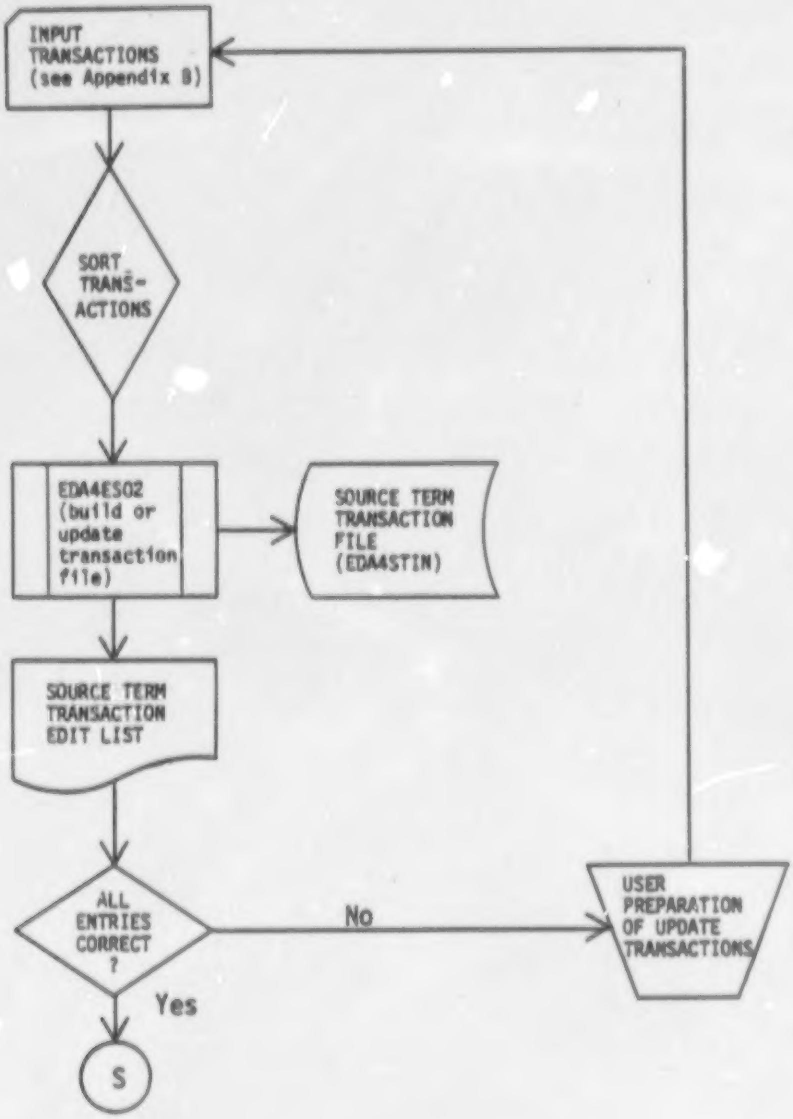
Updating the thesaurus is a multistep process. The first step simply duplicates the first 20 characters of a new lead-in entry term in the key (or code) field on the transaction so that the transactions will sort properly before application to the master file. All transactions are then checked thoroughly by a verification step to assure consistency with data currently contained in the data base. If any transaction is rejected, the condition code is set to prevent update and a Transaction Error Report is produced. The verification step also produces reciprocal transactions for specified transaction types. The update step applies both the user entered transactions and the machine generated reciprocals to the master file, producing a report of all changes made.


INPUT TRANSACTIONS (EDA4TRNT)
EDA4UT01 (modify "LE" trans-actions)
SORT NEW TRANSACTION FILE
CLASSIFICATION SCHEDULES (EDA4VCST)
THESAURUS (EDA4MTH)
EDA4UT04 (verify trans-actions)
ALL TRANSACTIONS VALID ?
No
Yes
TRANSACTION ERROR REPORT
USER CORRECTION OR ERRORS
SUBFILE E (EDA4TRNT)
SORT/ MERGE SUBFILE E AND TRANS-ACTIONS
EDA4UT06 (update thesaurus)
NEW THESAURUS (EDA4MTH)
M4 SORT
M4 REPORT
THESAURUS CHANGE REPORT

THESAURUS UPDATE

Adding New Source Term Occurrences--Source Term Edit

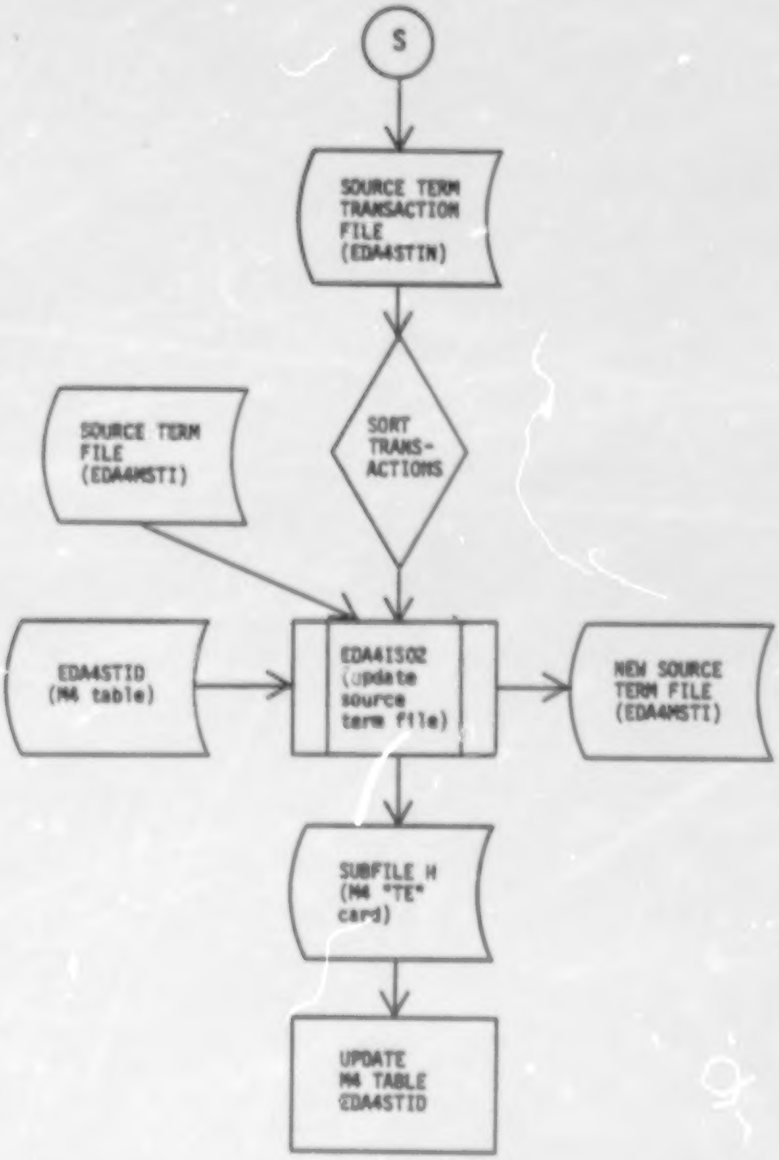
The hierarchical structure of the source term file is such that the text of a term generally occurs at two levels. When terms (i.e., occurrences of terms) are added to the source term file, the key is the term itself. To minimize updates involving this 154 byte key, the special procedure that builds the transaction file from the card images entered has been set up to facilitate edit and *update* of the *transaction* file prior to update of the source term file. The source term edit procedure is designed to be run repeatedly until the transaction file is satisfactory to the user. A report of all data in the file of source term transactions is produced with all entries modified during the run flagged by an asterisk.


INPUT TRANSACTIONS (see Appendix B)
SORT TRANS-ACTIONS
EDA4ES02 (build or update transaction file)
SOURCE TERM TRANSACTION FILE (EDA4STIN)
SOURCE TERM TRANSACTION EDIT LIST
ALL ENTRIES CORRECT ?
No
Yes
USER PREPARATION OF UPDATE TRANSACTIONS
S

ADDING NEW OCCURRENCES:
SOURCE TERM TRANSACTION EDIT

Adding New Source Term Occurrences--Source Term Entry

In general use in the Thesaurus/Glossary System, the key of the source term file consists of the 154 character source term. For update purposes (e.g., changing the glossary structure code), such a long key is impractical. To fulfill update needs, the source term entry procedure generates a unique permanent numeric identifier for each term. Table EDA4STID functions as the control data used to maintain uniqueness of this term identifier. After all additions to the source term file have been completed, table EDA4STID is updated to reflect the highest term identifier now in use. In addition to generating the term identifier, the entry procedure updates a numeric field representing the alphabetic sequence of terms for use in sorting the source term file alphabetically. The Source Term Change Report for this procedure may be suppressed by setting the symbolic parameter REPORT='DUMMY,'.


S
SOURCE TERM TRANSACTION FILE (EDA4STIN)
SORT TRANS- ACTIONS
SOURCE TERM FILE (EDA4MSTI)
EDA4STID (M4 table)
EDA4IS02 (update source term file)
NEW SOURCE TERM FILE (EDA4MSTI)
SUBFILE H (M4 "TE" card)
UPDATE M4 TABLE EDA4STID

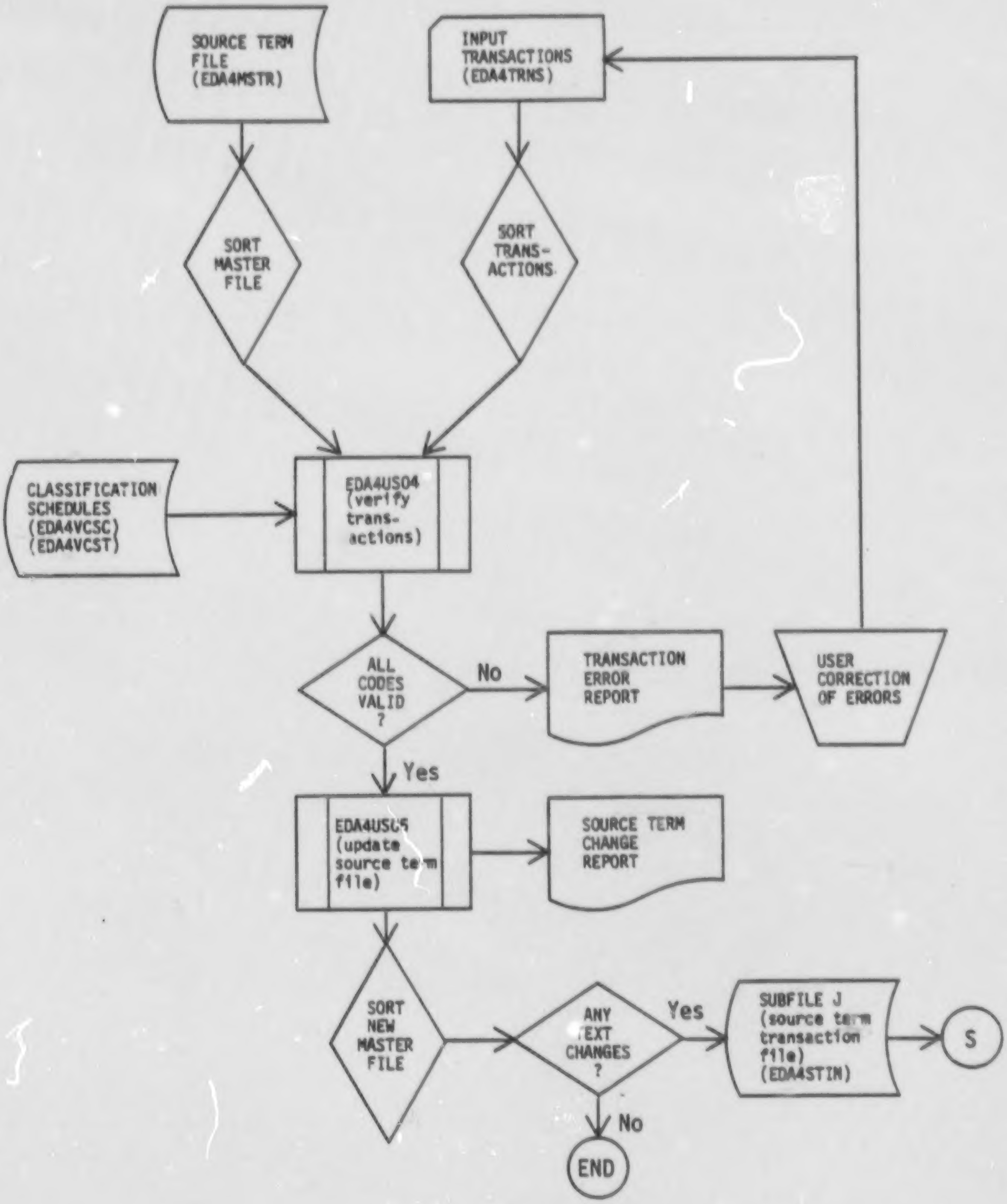
ADDING NEW OCCURRENCES:
SOURCE TERM ENTRY

Source Term Update

The source term update procedure contains a verification step that checks all glossary structure code transactions against the classification schedules to assure consistency between the two files. If any transaction is rejected, the condition code is set to prevent update and a Transaction Error Report is produced.

Changing the spelling of a term changes the key used in most processing. Spelling change transactions output a subfile that is subsequently used as a transaction file for the procedure described under adding new source term occurrences.

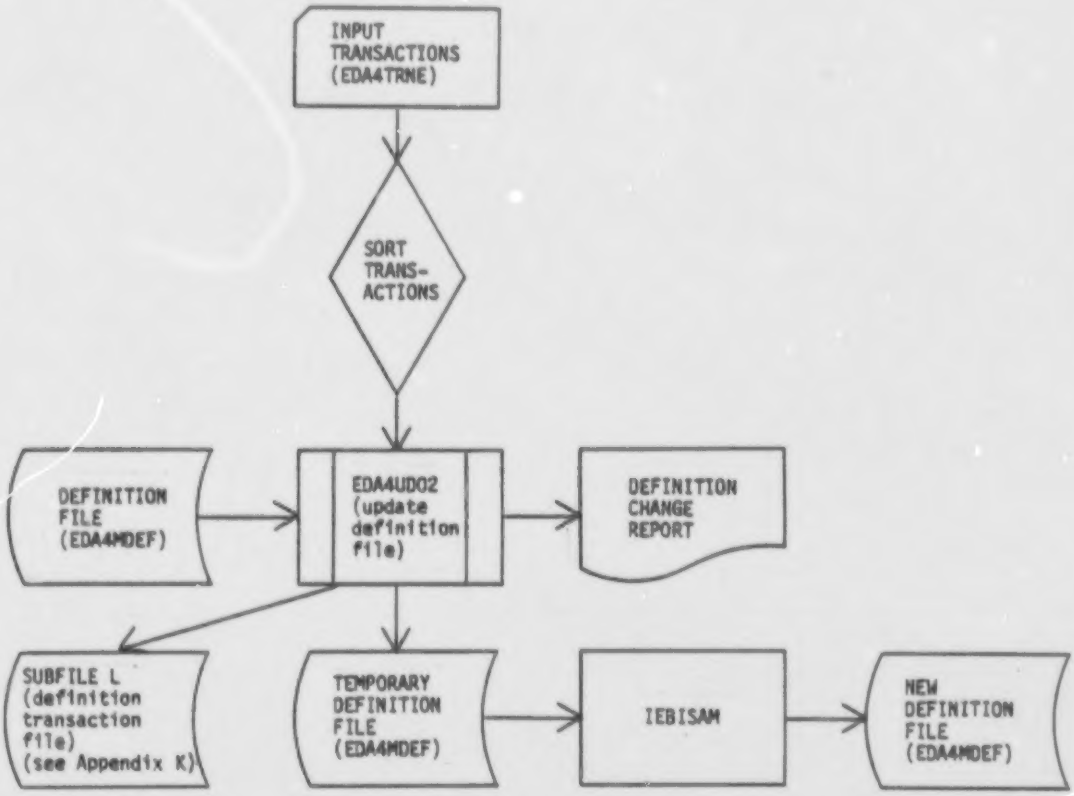
Execution of the source term update procedure produces a Source Term Change Report that provides a formatted list of the entire contents of any record having transaction activity. A special list transaction has been provided to permit reporting of selected records without performing any updates.


SOURCE TERM FILE (EDA4MSTR)
INPUT TRANSACTIONS (EDA4TRNS)
SORT MASTER FILE
SORT TRANS- ACTIONS
CLASSIFICATION SCHEDULES (EDA4VCSC) (EDA4VCST)
EDA4US04 (verify trans- actions)
ALL CODES VALID ?
No
TRANSACTION ERROR REPORT
USER CORRECTION OF ERRORS
Yes
EDA4US05 (update source term file)
SOURCE TERM CHANGE REPORT
SORT NEW MASTER FILE
ANY TEXT CHANGES ?
Yes
SUBFILE J (source term transaction file) (EDA4STIN)
S
No
END

SOURCE TERM UPDATE

Definition Update

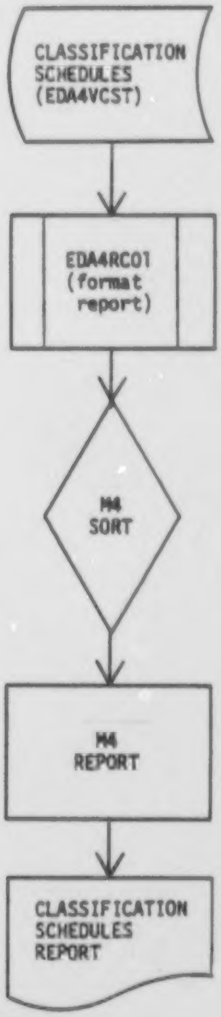
Update of the definition text involves breaking the text into temporary character type work fields in order to replace a specified portion of the text. After replacement, the work fields are concatenated back into the permanent variable type field. A Definition Change Report is produced providing a formatted list of the entire contents of any record having transaction activity. The definition text is listed in transaction image form for use in updating sections of the text. A special list transaction has been provided to simplify generating transactions. The list transaction prints the record contents in transaction card images without performing any updates.


INPUT TRANSACTIONS (EDA4TRNE)
SORT TRANS-ACTIONS
DEFINITION FILE (EDA4MDEF)
EDA4UD02 (update definition file)
DEFINITION CHANGE REPORT
SUBFILE L (definition transaction file) (see Appendix K)
TEMPORARY DEFINITION FILE (EDA4MDEF)
IEBISAM
NEW DEFINITION FILE (EDA4MDEF)

DEFINITION UPDATE

Print Classification Schedules Report

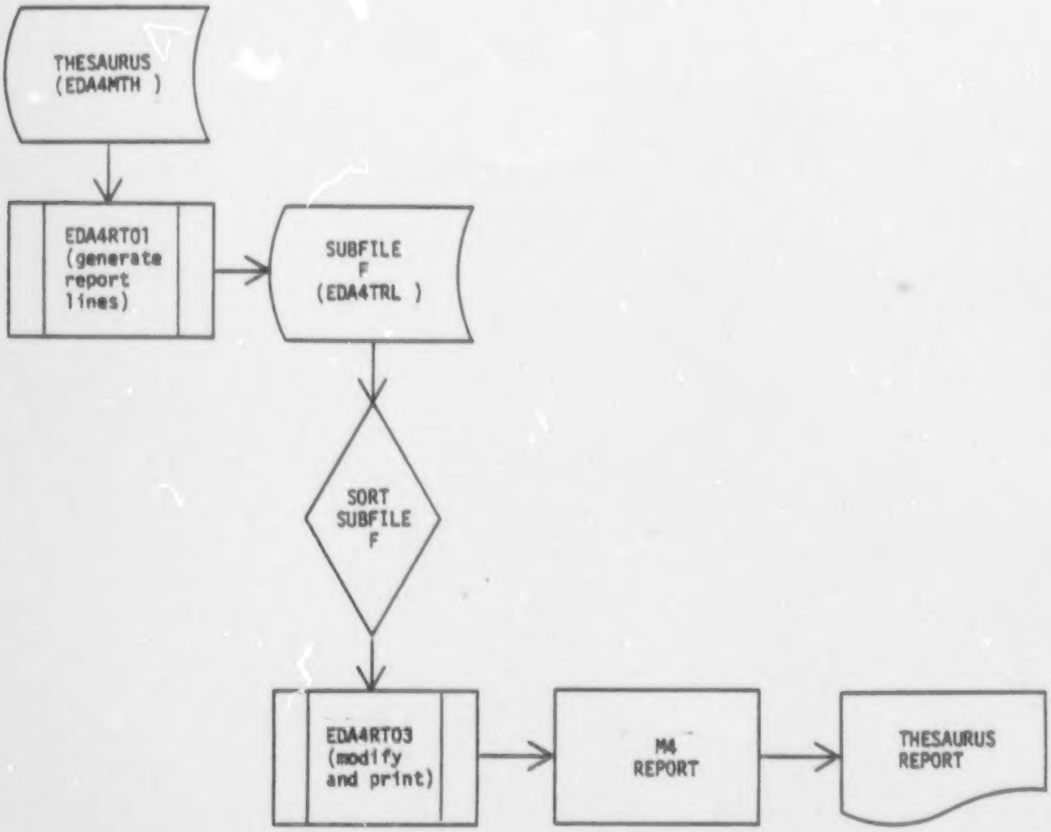
The Classification Schedules Report is designed to display the hierarchical structure imposed on the controlled vocabulary terms by means of the classification code. The code contains up to ten levels of hierarchy consisting of two digits for each level. The term is indented two spaces on the report page for each level of hierarcny (beyond the first) that occurs in the corresponding code. The report lines are sequenced in ascending numerical order by code.


CLASSIFICATION
SCHEDULES
(EDA4VCST)
EDA4RC01
(format
report)
M4
SORT
M4
REPORT
CLASSIFICATION
SCHEDULES
REPORT

PRINT CLASSIFICATION SCHEDULES REPORT

Print Thesaurus Report

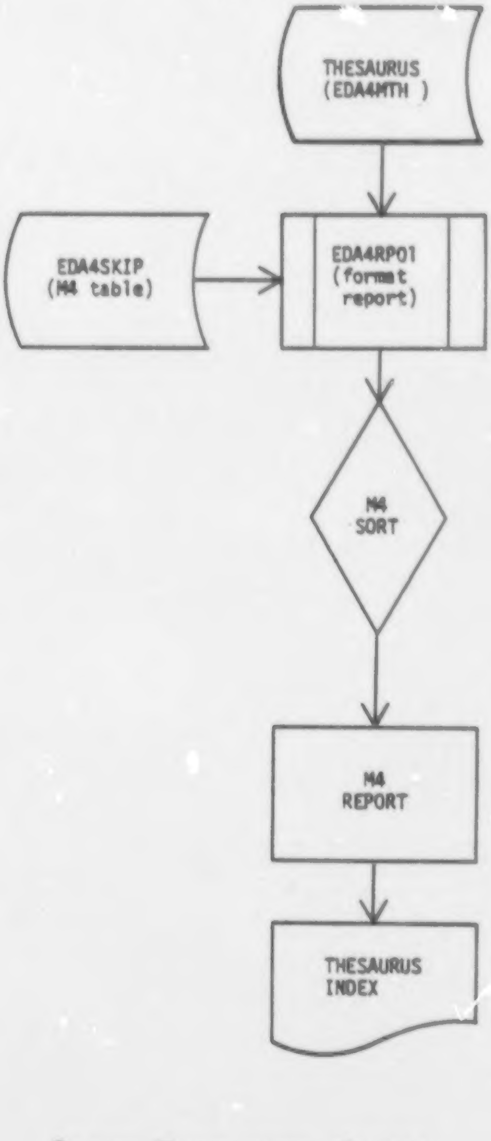
The Thesaurus Report is designed to display relationships between controlled vocabulary terms as well as which controlled vocabulary term(s) should be used instead of a particular lead-in entry term. The report is generated in two steps with an intervening sort. The first step generates the report lines. After these report lines have been sorted, the next step blanks out redundant descriptors to produce a cleaner, more readable report.


THESAURUS (EDA4MTH)
EDA4RT01 (generate report lines)
SUBFILE F (EDA4TRL)
SORT SUBFILE F
EDA4RT03 (modify and print)
M4 REPORT
THESAURUS REPORT

PRINT THESAURUS REPORT

Print Thesaurus Index

The Thesaurus Index is a permuted index of all controlled vocabulary and lead-in entry terms contained in the thesaurus. A comma is used to indicate the end of the term. (The only punctuation allowed in either controlled vocabulary or lead-in terms is parentheses or dashes.) Table EDA4SKIP functions as a stop list to suppress unwanted permutations. The report lines are sequenced in alphabetical order.


THESAURUS
(EDA4MTH)
EDA4SKIP
(M4 table)
EDA4RP01
(format
report)
M4
SORT
M4
REPORT
THESAURUS
INDEX

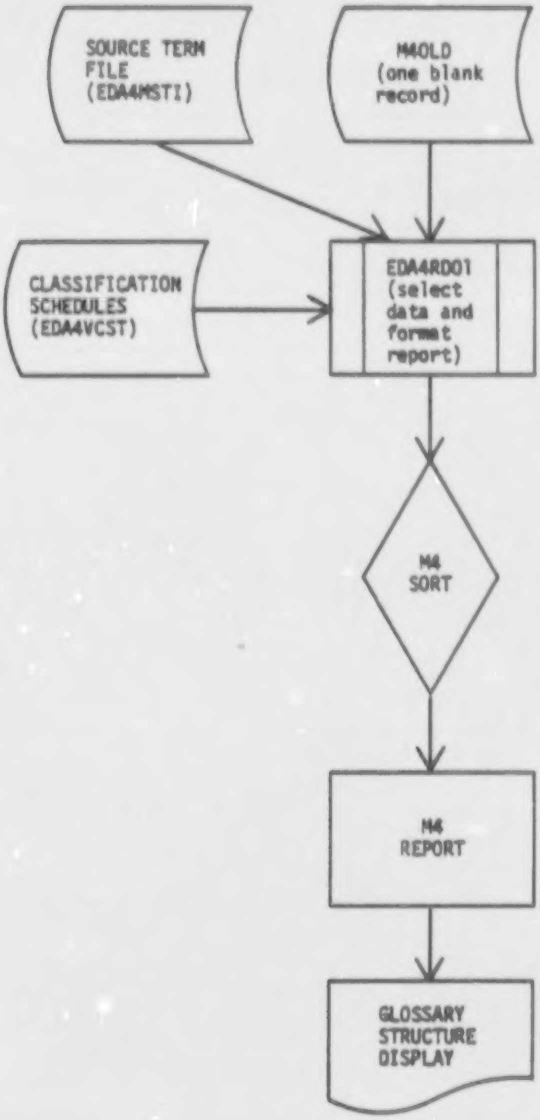
PRINT THESAURUS INDEX

Print Glossary Structure Display

The Glossary Structure Display is designed to provide a compact display of the structure imposed on the glossary. Data are selected from either the classification schedules or the source term file. To facilitate the selection process, M40LD consists of a single blank card with each of the data files specified as coordinated files, using extended file processing to access unmatched records. (In this case, all records are unmatched.) Terms occurring in both files appear only once in the report.

The glossary structure code consists of two parts--a classification portion and a glossary portion. The classification portion may contain up to ten levels of hierarchy of two digits each and the glossary portion five levels of hierarchy. Selected terms are indented to varying degrees, depending on the levels of hierarchy specified in both portions of the corresponding glossary structure code.

Since source terms may be up to 154 characters long and the amount of indentation varies with the level of hierarchy, a subroutine is used to perform the wrap-around of terms that exceed the width of the report line. The report lines are sequenced in ascending numerical order by code, then alphabetically by term (glossary structure codes need not be unique), and finally by the line number generated by the wrap-around subroutine.


SOURCE TERM FILE (EDA4MSTI)
M4OLD (one blank record)
CLASSIFICATION SCHEDULES (EDA4VCST)
EDA4RD01 (select data and format report)
M4 SORT
M4 REPORT
GLOSSARY STRUCTURE DISPLAY

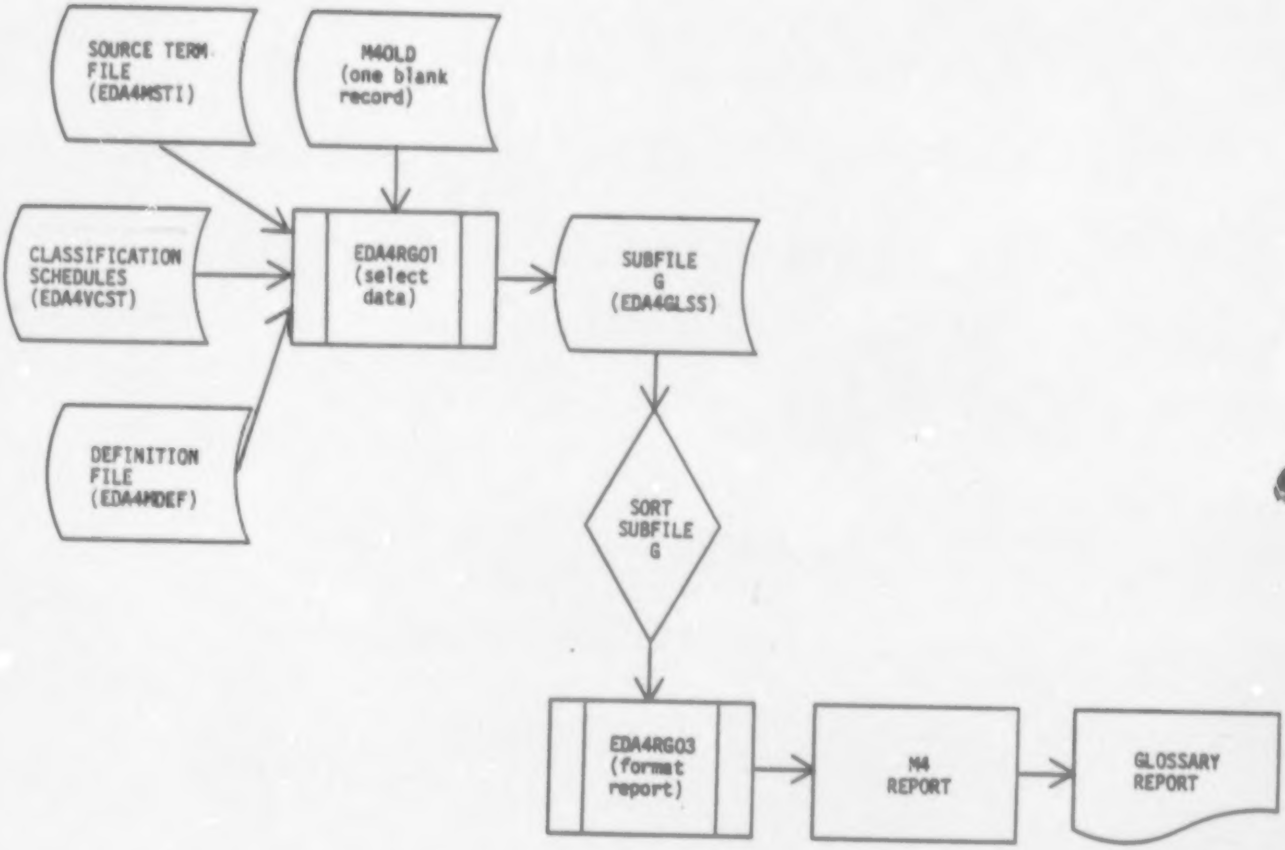
PRINT GLOSSARY STRUCTURE DISPLAY

Print Glossary Report

The Glossary Report is a structured display of definitions. Source terms along with their definitions are ordered under the appropriate controlled vocabulary heading. Formatting of the report entries is accomplished in two steps with an intervening sort.

The first step in producing the Glossary Report selects data from the classification schedules, the source term file, and the definition file. The data files are all specified as coordinated files with a single blank card representing M4OLD. Extended file processing and indexed coordinated file processing are used to access the data. Information is grouped by type and output in a subfile.

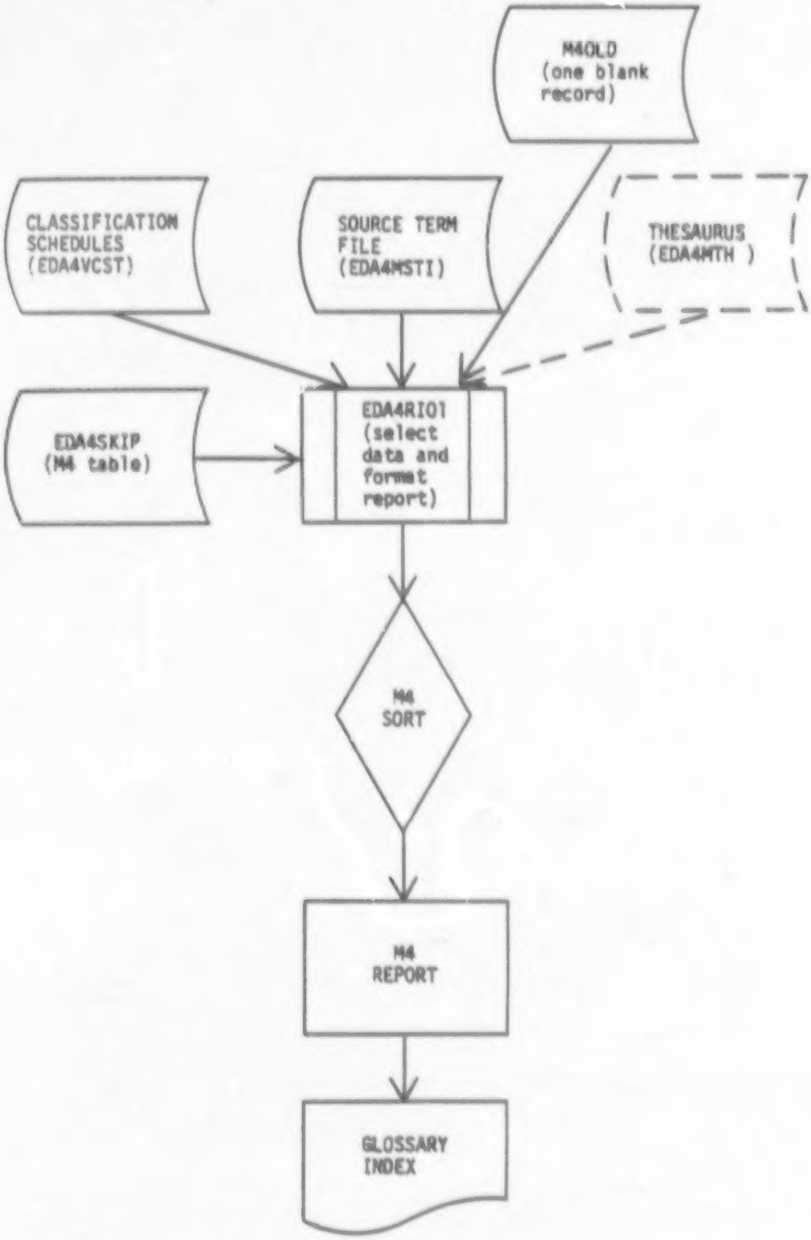
After the subfile output in step one has been sorted, it is read as the master file for printing the report. The number of records used in producing a report entry is variable. The code and term identifier are used to link multiple portions of an entry. The next step concatenates data occurring in the records into the format used in the report and prints the report.


SOURCE TERM FILE (EDA4MSTI)
M4OLD (one blank record)
CLASSIFICATION SCHEDULES (EDA4VCST)
DEFINITION FILE (EDA4MDEF)
EDA4RG01 (select data)
SUBFILE G (EDA4GLSS)
SORT SUBFILE G
EDA4RG03 (format report)
M4 REPORT
GLOSSARY REPORT

Print Glossary Report

Print Glossary Index

The Glossary Index is a permuted index of terms selected from the classification schedules, the source term file, and, optionally, the thesaurus. An asterisk is used to indicate the end of the term since standard punctuation is used in source terms. To facilitate the selection process, M4OLD consists of a single blank card with each of the data files specified as a coordinated file. Extended file processing is used to access the data records. A term is selected for permutation only once and each permutation is identified in the report by a letter code indicating each file in which it appeared. Table EDA4SKIP functions as a stop list to suppress unwanted permutations. The report lines are sequenced in alphabetical order.


M4OLD
(one blank
record)
CLASSIFICATION
SCHEDULES
(EDA4VCST)
SOURCE TERM
FILE
(EDA4MSTI)
THESAURUS
(EDA4MTH)
EDA4SKIP
(M4 table)
EDA4RI01
(select
data and
format
report)
M4
SORT
M4
REPORT
GLOSSARY
INDEX

PRINT GLOSSARY INDEX

APPENDIX A

SAMPLE REPORTS

FORMAL REPORTS

CLASSIFICATION SCHEDULES

01	PEOPLE
01.01	PERSONAL PHYSICAL CHARACTERISTICS
01.0101	AGES
01.0102	RACES
01.0103	SEXES
01.0104	HANDICAPS
01.0105	HEALTH
01.02	MENTAL CHARACTERISTICS
01.0201	ASPIRATIONS
01.0202	SKILLS
01.0202.01	ACADEMIC SKILLS
01.0202.02	CITIZENSHIP SKILLS
01.0202.03	CREATIVITY SKILLS
01.0202.04	COMMUNICATION SKILLS
01.0202.0401	ENGLISH SPEAKING ABILITY
01.0202.05	INTELLECTUAL SKILLS
01.0202.06	INTERPERSONAL SKILLS
01.0202.07	OCCUPATIONAL SKILLS
01.0202.08	PHYSICAL SKILLS
01.0203	ATTITUDES
01.0204	PERCEPTIONS
01.0205	PERSONALITY
01.03	SOCIOECONOMIC CHARACTERISTICS
01.0301	RESIDENCES
01.0301.01	PLACE OF ORIGIN
01.0301.0101	MIGRANTS

```
ABILITIES
   USE   SKILLS

ABILITY GROUPING
   USE   INSTRUCTION GROUPING PRACTICES

ACADEMIC ADMINISTRATION
   USE   ACADEMIC MANAGEMENT

ACADEMIC AWARDS                            10.0301.0201
   RT    EDUCATIONAL SUBJECT MATTER
         KNOWLEDGE DEVELOPMENT INSTRUCTION

ACADEMIC CALENDAR SYSTEMS
   USE   ACADEMIC YEARS

ACADEMIC LIBRARIES
   USE   LIBRARIES BY ORGANIZATION SERVED
   AND   POSTSECONDARY INSTITUTIONS

ACADEMIC MANAGEMENT                        05.0203.01
   UF    ACADEMIC ADMINISTRATION
         ACADEMIC PROGRAM ADVISING
         EDUCATION ADMINISTRATION
         LEARNING RESOURCE RESEARCH
   RT    INSTRUCTIONAL MATERIALS

ACADEMIC PERSONNEL SUPPORT                 05.0203.02
   UF    FACULTY RECOGNITION PROGRAMS
         INSTRUCTIONAL STAFF DEVELOPMENT
         INSTRUCTIONAL STAFF TRAINING SERVICES
         TEACHER EDUCATION IMPROVEMENT
   RT    STAFF SERVICES

ACADEMIC PROGRAM ADVISING
   SEE   ACADEMIC MANAGEMENT
         STUDENT COUNSELING SERVICES

ACADEMIC PROGRAMS
   USE   CONTENT-SPECIFIC INSTRUCTION

ACADEMIC RANKS
   USE   PROFESSIONAL EDUCATION POSITIONS

ACADEMIC SECTOR ORGANIZATIONS
   USE   EDUCATION ORGANIZATIONS

ACADEMIC SKILLS                            01.0202.01
   UF    TEST-TAKING ABILITY
```

```
ACADEMIC SUPPORT ASSIGNMENTS               03.0402.03
   RT    ACADEMIC SUPPORT SERVICES

ACADEMIC SUPPORT EXPENDITURES
   USE   DISBURSEMENTS BY FUNCTION
   AND   ACADEMIC SUPPORT SERVICES

ACADEMIC SUPPORT SERVICES                  05.0203
   RT    ACADEMIC SUPPORT ASSIGNMENTS

ACADEMIC YEARS                             11.01
   UF    ACADEMIC CALENDAR SYSTEMS
         LENGTH OF TERMS
         QUARTER SYSTEM
         SEMESTER SYSTEM
         TRIMESTER SYSTEM
         4-1-4 PLAN

ACCESSIBILITY TO HANDICAPPED               09.0201.01

ACCESSIBLE BUILDINGS
   USE   BUILDINGS
   AND   ACCESSIBILITY TO HANDICAPPED

ACCESSIBLE PROGRAMS
   USE   EDUCATION ORGANIZATION FUNCTIONS
   AND   ACCESSIBILITY TO HANDICAPPED

ACCESSIBLE SQUARE FEET
   USE   SPACES
   AND   ACCESSIBILITY TO HANDICAPPED

ACCOUNTING ORGANIZATIONS
   USE   NONEDUCATION ORGANIZATIONS

ACCOUNTING POSITIONS
   USE   PROFESSIONAL NONEDUCATION POSITIONS

ACCREDITATION CANDIDATES (ORGANIZATIONS)
   USE   INSTITUTION ACCREDITATION
   AND   ORGANIZATIONS

ACCREDITING ASSOCIATIONS
   USE   INSTITUTION ACCREDITATION
   AND   NONEDUCATION ORGANIZATIONS

ACTING SKILLS
   USE   COMMUNICATION SKILLS

ADAPTABILITY
```

ADMINISTRATOR SHORTAGES
ADMINISTRATOR TRAINING PROGRAMS
ADMINISTRATORS, CONTRACT
ADMINISTRATORS, PRINCIPAL
ADMISSION REQUIREMENTS, MINIMUM
ADMISSION STATUS (STUDENT)
ADMISSIONS DIRECTORS
ADMISSIONS SERVICES, STUDENT
ADMISSIONS, STUDENT
ADMITTANCE POLICIES, LIBRARY
ADULT EDUCATION
ADULT LEARNERS
ADULT STUDENTS
ADULTHOOD STATUS
ADVENTUROUSNESS
ADVERTISING ORGANIZATIONS
ADVISING, ACADEMIC PROGRAM
ADVISORY COUNCILS, PARENT
ADVISORY COUNCILS, STUDENT
AFDC INCOME
AFDC PAYMENTS, FAMILIES RECEIVING
AFFECTIVE CHARACTERISTICS
AFFILIATED INSTITUTIONS, RELIGIOUS GROUP
AFFILIATIONS, INSTITUTIONAL
AFFILIATIONS, ORGANIZATIONAL
AFFILIATIONS, SCHOOL ORGANIZATIONAL
AFFILIATIONS, SCHOOL RELIGIOUS
AGE ASSISTANCE INCOME, OLD
AGE SPANS
AGENCIES, FEDERAL EDUCATION
AGENCIES, FEDERAL GOVERNMENT
AGENCIES, GOVERNMENT
AGENCIES, LOCAL EDUCATION
AGENCIES, LOCAL GOVERNMENT
AGENCIES, STATE EDUCATION
AGENCIES, STATE GOVERNMENT
AGENCIES, STATE LIBRARY
AGENCIES, TRIBAL GOVERNMENT
AGENCY FUNDS GROUP
AGENCY GOVERNANCE
AGENCY OPERATED SCHOOLS, STATE EDUCATION
AGENCY PERSONNEL, LOCAL EDUCATION
AGENCY RECEIPTS, STATE LIBRARY
AGENTS, PURCHASING
AGES
AGES OF BUILDINGS
AGES OF EMPLOYEES
AGES OF ORGANIZATIONS
AGES OF PEOPLE
AGES OF STUDENTS
AGRICULTURAL OCCUPATIONS
AGRICULTURAL SCIENCES COLLECTIONS
AGRICULTURAL WORKERS, MIGRATORY
AGRICULTURE COLLECTIONS
AGRICULTURE OCCUPATIONAL PROGRAMS
AGRICULTURE SUBJECT MATTER
AID ACT PROGRAMS, EMERGENCY SCHOOL
AID ADMINISTRATION, FINANCIAL
AID DIRECTORS, STUDENT FINANCIAL
AID DISBURSEMENTS, FINANCIAL
AID RECEIVED, FINANCIAL
AID SERVICES, STUDENT FINANCIAL
AID TO THE BLIND INCOME
AID TO THE DISABLED INCOME
AID, FEDERAL SCHOOL FACILITIES
AID, FINANCIAL
AID, STATE SCHOOL FACILITIES
AIDES, TEACHER
AIMS, PERSONAL
ALASKAN NATIVES
ALIENS, NON-RESIDENT
ALIMONY INCOME
ALL-FEMALE STUDENT BODIES
ALL-MALE STUDENT BODIES
ALTERNATIVE SCHOOLS
ALUMNI RELATIONS
ALUMNI RELATIONS DIRECTORS
AMERICAN INDIANS
AMERICANS, SPANISH
AMOUNTS OF TIME
ANALYSIS (INSTRUCTION TECHNIQUE)
ANALYSIS SKILLS, PROBLEM
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ANNEXATION, SCHOOL SYSTEM
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ANNUAL WAGES
ANNUITY AND LIFE INCOME FUNDS GROUP
ANNUITY FUNDS
ANTICIPATED EXPENDITURES
ANTICIPATED FUND BALANCES
ANTICIPATED FUND DISBURSEMENTS
ANTICIPATED FUND RECEIPTS
ANTICIPATED FUNDS DEFICIT
ANTICIPATED FUNDS SURPLUS
ANTICIPATED REVENUES
ANTICIPATION
ANXIETY
APPARATUS
APPEAL ADJUDICATION
APPLICANTS, INTERVIEWING STUDENT
APPRENTICESHIP POSITIONS
APPROPRIATION REVENUE, FEDERAL GOVERNMENT
APPROPRIATION REVENUES, LOCAL GOVERNMENT
APPROPRIATION REVENUES, STATE GOVERNMENT
APPROPRIATIONS REVENUES
APPROPRIATIONS REVENUES, GOVERNMENT
APPROVAL ACTIVITIES, PROGRAM
APPROVAL, TEACHER
ARCHITECT OCCUPATIONS
ARCHITECT POSITIONS

```
 01                                     PEOPLE
(01                      .01)               PERSONAL IDENTIFICATION
(01                      .0101)               NAME
(01                      .0101.01)              LEGAL NAME
(01                      .0101.02)              ANY OTHER NAME
(01                      .0102)               SOCIAL SECURITY NUMBER
(01                      .0103)               OTHER PERSONAL IDENTIFICATION
(01                      .02)               POPULATION
(01                      .0201)               GENERAL POPULATION CHARACTERISTICS
(01                      .0201.01)              TOTAL POPULATION
(01                      .0201.0101)              MIDPERIOD POPULATION
(01                      .0201.02)              POPULATION DENSITY
(01                      .0201.02)              POPULATION INCREASE OR DECREASE
(01                      .0201.0201)              PERCENT POPULATION INCREASE OR DECREASE
(01                      .03)               VITAL STATISTICS
(01                      .0301)               ANNUAL BIRTHS
(01                      .0301.01)              CRUDE BIRTH RATE
(01                      .0302)               ANNUAL DEATHS
(01                      .0302.01)              CRUDE DEATH RATE
(01                      .0303)               ANNUAL INFANT MORTALITY
(01                      .0303.01)              INFANT MORTALITY RATE
(01                      .0304)               NATURAL INCREASE OR DECREASE
(01                      .0305)               NET MIGRATION
(01                      .0306)               AGE-SPECIFIC BIRTHS
(01                      .0306.01)              AGE-SPECIFIC BIRTH RATES
(01                      .0307)               ANNUAL MARRIAGES
(01                      .0307.01)              MARRIAGE RATE
(01                      .0308)               ANNUAL DIVORCES
(01                      .0308.01)              DIVORCE RATE
(01                      .0309)               ANNUAL SUICIDES
(01                      .0309.01)              SUICIDE RATE
(01                      .0310)               LIVE BIRTHS TO TEENAGERS
(01                      .0310.01)              RATE OF LIVE BIRTHS TO TEENAGERS
(01                      .04)               PERSON OTHER THAN LEARNER
(01                      .05)               PEER GROUP
(01                      .06)               HUMAN RESOURCES
(01                      .0601)               IDENTIFICATION OF HUMAN RESOURCES
(01                      .0602)               CHARACTERISTICS OF HUMAN RESOURCES
(01                      .07)               INDIVIDUAL PERSON(S)
(01                      .08)               INDIVIDUAL(S)
(01                      .09)               PERSONAL AND HEALTH INFORMATION
(01                      .0901)               PERSONAL DATA
(01                      .0902)               IDENTIFICATION
(01                      .0902.02)              OTHER OR MAIDEN NAME
(01                      .0902.04)              OTHER IDENTIFICATION NUMBERS
 01.01                                    PERSONAL PHYSICAL CHARACTERISTICS
 01.0101                                    AGES
(01.0101                 .01)                   BIRTH AND AGE DATA
(01.0101                 .0101)                   DATE OF BIRTH
(01.0101                 .0102)                   EVIDENCE VERIFYING DATE OF BIRTH
(01.0101                 .0102.01)                  BIRTH CERTIFICATE
```

AGES

01.0101	.0402	AGE GROUP. THE AGE GROUP OF THE LEARNER AT THE TIME OF PARTICIPATION IN A SPECIFIED LEARNING ACTIVITY (IX). (265)

RACES

01.0102		RACES.
01.0102	.01	RACIAL/ETHNIC GROUP. A PERSON'S GENERAL RACIAL OR ETHNIC HERITAGE (IX). A PERSON'S GENERAL RACIAL OR ETHNIC HERITAGE (VR). SEE ALSO CULTURALLY DIFFERENT, ETHNIC GROUP, MINORITY GROUP. (7796)
01.0102	.0101	AMERICAN INDIAN OR ALASKA NATIVE. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF THE WESTERN HEMISPHERE (VR). (369)
01.0102	.0101	AMERICAN INDIAN OR ALASKAN NATIVE. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF NORTH AMERICA, AND WHO MAINTAINS CULTURAL IDENTIFICATION THROUGH TRIBAL AFFILIATION OR COMMUNITY RECOGNITION (IX). (370)
01.0102	.0102	ASIAN (ORIENTAL) OR PACIFIC ISLANDER. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF THE FAR EAST, SOUTHEAST ASIA, OR THE PACIFIC ISLANDS. THIS INCLUDES, FOR EXAMPLE, BURMA, CHINA, MONGOLIA, JAPAN, KOREA, THE PHILIPPINE ISLANDS, AND SAMOA (VR). (612)
01.0102	.0102	ASIAN OR PACIFIC ISLANDER. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF THE FAR EAST, SOUTHEAST ASIA, THE INDIAN SUBCONTINENT, OR THE PACIFIC ISLANDS. THESE AREAS INCLUDE, FOR EXAMPLE, CHINA, INDIA, KOREA, THE PHILIPPINE ISLANDS, AND SAMOA (IX). (613)
01.0102	.0103	BLACK. A PERSON HAVING ORIGINS IN ANY OF THE BLACK RACIAL GROUPS OF AFRICA (IX). (975)
01.0102	.0103	BLACK (NOT OF HISPANIC ORIGIN). (976)
01.0102	.0103	BLACK/NEGRO. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF SUB-SAHARAN AFRICA (VR). (978)
01.0102	.0104	CAUCASIAN. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF EUROPE, NORTH AFRICA, THE MIDDLE EAST, OR THE INDIAN SUBCONTINENT (VR). (1275)
01.0102	.0104	WHITE. A PERSON HAVING ORIGINS IN ANY OF THE ORIGINAL PEOPLES OF EUROPE, NORTH AFRICA, OR THE MIDDLE EAST (IX). (10254)
01.0102	.0104	WHITE (NOT OF HISPANIC ORIGIN). (10255)
01.0102	.0105	HISPANIC. A PERSON OF MEXICAN, PUERTO RICAN, CUBAN, CENTRAL OR SOUTH AMERICAN, OR OTHER SPANISH CULTURE OR ORIGIN, REGARDLESS OF RACE (IX). A PERSON OF MEXICAN, PUERTO RICAN, CUBAN, CENTRAL OR SOUTH AMERICAN, OR OTHER SPANISH CULTURE OR ORIGIN, REGARDLESS OF RACE (VR). (3925)
01.0102	.02	RACIAL/ETHNIC CHARACTERISTICS. (7795)

```
04/09/79                                    GLOSSARY INDEX                                           PAGE 2

ACADEMIC ADMINISTRATION/GOVERNANCE  (G)                                         05.0203.01          .0101
ACADEMICALLY RELATED PROGRAMS* INSTRUCTIONAL EXPENSES IN  (G)                   99.9999.9999.9999.999999.9999.999999
ACADEMIC APTITUDE* SPECIFIC  (G)                                                99.9999.9999.9999.999999.9999.999999
ACADEMIC AWARDS  (C)                                                            10.0301.0201
ACADEMIC AWARDS AND HONORARY DEGREES  (G)                                       01.0304             .0501.0305
ACADEMIC COCURRICULAR ACTIVITIES  (G)                                           99.9999.9999.9999.999999.9999.999999
ACADEMIC COCURRICULAR ACTIVITIES* OTHER  (G)                                    99.9999.9999.9999.999999.9999.999999
ACADEMIC COMPUTING SUPPORT  (G)                                                 05.0205.06          .06
ACADEMIC DIFFICULTY (D6)  (G)                                                   02.0602             .0202.06
ACADEMIC DISADVANTAGE  (G)                                                      01.03               .1001
ACADEMIC DISCIPLINE  (G)                                                        05.0104             .99
ACADEMIC EDUCATION  (G)                                                         99.9999.9999.9999.999999.9999.999999
ACADEMIC FACILITIES  (G)                                                        99.9999.9999.9999.999999.9999.999999
ACADEMIC HONORS  (G)                                                            99.9999.9999.9999.999999.9999.999999
ACADEMIC HONORS AT CURRENT POSTSECONDARY INSTITUTION  (G)                       99.9999.9999.9999.999999.9999.999999
ACADEMIC HONORS AT PREVIOUS POSTSECONDARY INSTITUTION  (G)                      99.9999.9999.9999.999999.9999.999999
ACADEMIC HONORS AT SECONDARY SCHOOL  (G)                                        99.9999.9999.9999.999999.9999.999999
ACADEMIC HONORS AT SUBSEQUENT POSTSECONDARY INSTITUTION  (G)                    99.9999.9999.9999.999999.9999.999999
ACADEMIC INSTRUCTION (DEGREE-RELATED)* GENERAL  (G)                             05.0104             .05
ACADEMIC INSTRUCTION* GENERAL  (G)                                              05.0104             .07
ACADEMIC/LIBERAL ARTS PROGRAM* GENERAL  (G)                                     99.9999.9999.9999.999999.9999.999999
ACADEMIC MANAGEMENT  (C)                                                        05.0203.01
ACADEMIC OFFICER* CHIEF  (G)                                                    03.0301.01          .99
ACADEMIC PERSONNEL DEVELOPMENT  (G)                                             05.0203.02          .02
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ACADEMIC PROGRAM ADVISING  (G)                                                  05.0203.01          .0102
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ACADEMIC REASON  (G)                                                            99.9999.9999.9999.999999.9999.999999
ACADEMIC SCHOOL YEAR  (G)                                                       99.9999.9999.9999.999999.9999.999999
ACADEMIC SECTOR  (G)                                                            99.9999.9999.9999.999999.9999.999999
ACADEMIC SKILLS  (C)                                                            01.0202.01
ACADEMIC SUBDIVISIONS OF KNOWLEDGE AND TRAINING* CONVENTIONAL  (G)              99.9999.9999.9999.999999.9999.999999
ACADEMIC SUBJECTS  (G)                                                          99.9999.9999.9999.999999.9999.999999
ACADEMIC SUPPORT  (G)                                                           05.0203             .04
ACADEMIC SUPPORT ASSIGNMENTS  (C)                                               03.0402.03
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ACADEMIC WORK* GIFTED IN GENERAL  (G)                                           01.0202             .0101
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ACADEMIC YEAR  (G)                                                              11.01               .08
ACADEMIC YEAR OR ITS EQUIVALENT  (G)                                            99.9999.9999.9999.999999.9999.999999
ACADEMIC YEARS  (C)                                                             11.01
ACADEMIC YEAR* SALARY RATES FOR  (G)                                            99.9999.9999.9999.999999.9999.999999
ACADEMIC YEAR* SALARY RATES FOR PERIODS OUTSIDE THE  (G)                        99.9999.9999.9999.999999.9999.999999
ACADEMY* SERVICE  (G)                                                           99.9999.9999.9999.999999.9999.999999
ACCELERATED PROMOTION  (G)                                                      02.05               .0601.02
ACCELERATED RATE* NUMBER OF STUDENTS ADVANCED AT AN  (G)                        99.9999.9999.9999.999999.9999.999999
ACCELERATION  (G)                                                               99.9999.9999.9999.999999.9999.999999
ACCEPTANCE OF ADMISSION OFFER  (G)                                              99.9999.9999.9999.999999.9999.999999
ACCEPTANCE OF ADMISSION OFFER* CANCELLATION OF  (G)                             99.9999.9999.9999.999999.9999.999999
ACCEPTANCE OF CONTENT* SOCIAL  (G)                                              05.0203.0102        .0301.020502
```

CHANGE REPORTS

105

MAR 23, 1979

CHANGES TO CLASSIFICATION SCHEDULES
DURING THIS RUN

CHANGED

04.0102.01	PUBLIC ADMINISTRATION ORGANIZATIONS (FROM 94.0102.0101)
04.0102.0101	GOVERNMENT AGENCIES (FROM 94.0102.01)
04.0102.0101.02	STATE GOVERNMENT AGENCIES (FROM 04.0102.0102)
04.0102.0101.0201	STATE EDUCATION AGENCIES (FROM 04.0102.0102.01)
04.0102.0101.0202	STATE LIBRARY AGENCIES (FROM 04.0102.0102.02)
04.0102.0101.03	INTERMEDIATE ADMINISTRATIVE UNITS (FROM 04.0102.0103)
04.0102.0101.04	LOCAL GOVERNMENT AGENCIES (FROM 04.0102.0104)

```
ADDED

    AGRICULTURAL ECONOMICS SUBJECT MATTER
       USE  AGRICULTURE SUBJECT MATTER
    AGRICULTURAL TECHNOLOGY SUBJECT MATTER
       USE  AGRICULTURE SUBJECT MATTER
    (AGRICULTURE SUBJECT MATTER)
       UF   AGRICULTURAL ECONOMICS SUBJECT MATTER
       UF   AGRICULTURAL TECHNOLOGY SUBJECT MATTER
       UF   ANIMAL SCIENCES SUBJECT MATTER
       UF   FISHERIES SUBJECT MATTER
       UF   FORESTRY SUBJECT MATTER
       UF   LAND RECLAMATION SUBJECT MATTER
       UF   ORNAMENTAL HORTICULTURE SUBJECT MATTER
       UF   OUTDOOR RECREATION SUBJECT MATTER
       UF   PLANT SCIENCES SUBJECT MATTER
       UF   RANGE SCIENCE SUBJECT MATTER
       UF   SOIL SCIENCES SUBJECT MATTER
       UF   WILDLIFE SUBJECT MATTER
    ANIMAL SCIENCES SUBJECT MATTER
       USE  AGRICULTURE SUBJECT MATTER
    (ASSETS)
       UF   INVESTMENTS
    (ATTITUDES)
       UF   PREFERENCES
       UF   RELIGIOUS BELIEFS
    AUDIOVISUAL COLLECTIONS
       USE  COLLECTIONS BY MATERIAL
    AUDIOVISUAL MATERIALS
       USE  INSTRUCTIONAL MATERIALS
    AUDIT SERVICES
       USE  FISCAL SERVICES
    AUTHORIZING AGENCIES
       SEE  INSTITUTION ACCREDITATION
            PUBLIC ADMINISTRATION ORGANIZATIONS
    BILINGUAL PEOPLE
       USE  COMMUNICATION SKILLS
    BILINGUAL STAFF
       USE  COMMUNICATION SKILLS
       AND  EMPLOYEES
    (BUDGETS)
       RT   DISBURSEMENTS
    CLASSES OFFERED
       USE  INSTRUCTION SERVICES
    (COLLECTIONS BY MATERIAL)
       UF   AUDIOVISUAL COLLECTIONS
    (COMMUNICATION SKILLS)
       UF   BILINGUAL PEOPLE
       UF   ILLITERACY
    COMMUNITY RELATIONS SERVICES
       USE  PUBLIC RELATIONS SERVICES
```

SOURCE TERMS UNCLASSIFIED
DURING THIS RUN

CITIZEN (44)
CITIZENSHIP STATUS (45)
HONORARY, CULTURAL, AND CIVIC ORGANIZATIONS (54)
IDENTIFICATION NUMBER (55)
LEGAL NAME (57)
MILITARY SERVICE STATUS (60)
NATURAL BORN UNITED STATES CITIZEN (62)
NATURALIZED UNITED STATES CITIZEN (63)
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ORGANIZATIONAL MEMBERSHIPS AND PARTICIPATION (65)
OTHER NAME (66)
PERSON TO BE NOTIFIED IN EMERGENCY (68)
PLACE OF BIRTH (75)
PROFESSIONAL ORGANIZATIONS (76)
SOCIAL SECURITY NUMBER (80)
TRAVEL (82)

```
APR 11, 1979                                            SOURCE TERM CHANGES                                                  PAGE 1
                                                          DURING THIS RUN


    21  ABSENCE                                                                       99.9999.9999.9999.999999.9999.999999

        ORIGINAL TEXT:  ABSENCE
                        SOURCE:  VR                  PAGE:  0112  SEQUENCE:  A

        CROSS-REFERENCES:  SESSION
                           DAY OF ABSENCE

    31  ACADEMIC DISCIPLINE                                                           05.0104                .99

        ORIGINAL TEXT:  ACADEMIC DISCIPLINE
                        SOURCE:  HE4                 PAGE:  0063  SEQUENCE:  A

        CROSS-REFERENCES:  DISCIPLINE

    45  ACADEMIC YEAR                                                                 11.01                  .08

        ORIGINAL TEXT:  ACADEMIC YEAR
                        SOURCE:  HE4                 PAGE:  0063  SEQUENCE:  B
                        SOURCE:  VR                  PAGE:  0112  SEQUENCE:  B
                        SOURCE:  IX                  PAGE:  0159  SEQUENCE:  C
                        SOURCE:  169.2               PAGE:  0220  SEQUENCE:  B
                        SOURCE:  192.2               PAGE:  0565  SEQUENCE:  A
                        SOURCE:  175.2               PAGE:  0272  SEQUENCE:  A
                        SOURCE:  189.1               PAGE:  0503  SEQUENCE:  A
                        SOURCE:  187.2               PAGE:  0476  SEQUENCE:  A
                        SOURCE:  148.2               PAGE:  0751  SEQUENCE:  A
                        SOURCE:  20 USC 1088         PAGE:  0975  SEQUENCE:  B
                        SOURCE:  146.2               PAGE:  0734  SEQUENCE:  B
                        SOURCE:  177.1               PAGE:  0317  SEQUENCE:  C
                        SOURCE:  160A.3              PAGE:  0075  SEQUENCE:  A
                        SOURCE:  144.2               PAGE:  0700  SEQUENCE:  A1
                        SOURCE:  176.2               PAGE:  0297  SEQUENCE:  A
                        SOURCE:  192.2               PAGE:  0559  SEQUENCE:  A
                        SOURCE:  190.2               PAGE:  0512  SEQUENCE:  A

        CROSS-REFERENCES:  TERM
                           REGULAR SCHOOL TERM

   108  ACTIVE MINORITY OR ETHNIC GROUP ORGANIZATIONS                                 04.0102.04             .01

        ORIGINAL TEXT:  ACTIVE MINORITY OR ETHNIC GROUP ORGANIZATIONS
                        SOURCE:  VIII                PAGE:  0199  SEQUENCE:  B

        CROSS-REFERENCES:  MINORITY GROUP
                           ETHNIC GROUP

   124  ADA                                                                           99.9999.9999.9999.999999.9999.999999

        ORIGINAL TEXT:  ADA
                        SOURCE:  VR                  PAGE:  0112  SEQUENCE:  D
                        SOURCE:  113.1               PAGE:  0265  SEQUENCE:  B1

        CROSS-REFERENCES:  AVERAGE DAILY ATTENDANCE
```

```
DOCUMENT:  VII                   PAGE:  0006     SEQUENCE ID:  D

STATUS=0     GLOSSARY SEQUENCE= 0     PREFERRED=0

SCOPE NOTE:  PROGRAM

DEFINITION:  01INSTRUCTION DESIGNED TO MEET THE UNIQUE NEEDS OF ADUL
             02TS AND YOUTH-BEYOND THE AGE OF COMPULSORY SCHOOL ATTE
             03NDANCE-WHO HAVE EITHER COMPLETED OR INTERRUPTED THEIR
             04 FORMAL EDUCATION.  THIS MAY BE PROVIDED BY A SCHOOL
             05SYSTEM, COLLEGE, OR OTHER AGENCY OR INSTITUTION (INCL
             06UDING A TECHNICAL INSTITUTE OR AREA VOCATIONAL SCHOOL
             07) THROUGH ACTIVITIES AND MEDIA SUCH AS FORMAL CLASSES
             08, CORRESPONDENCE STUDY, RADIO, TELEVISION, LECTURES,
             09CONCERTS, DEMONSTRATIONS, AND COUNSELING.  ADULT EDUC
             10ATION, LIKE OTHER "PROGRAM LEVELS," IS NOT NECESSARIL
             11Y MUTUALLY EXCLUSIVE.  FOR EXAMPLE, ADULT BASIC EDUCA
             12TION IS PRIMARILY EDUCATION AT THE ELEMENTARY LEVEL.


DOCUMENT:  VII                   PAGE:  0062     SEQUENCE ID:  A

STATUS=0     GLOSSARY SEQUENCE= 0     PREFERRED=0

SCOPE NOTE:

DEFINITION:  01THE DIFFERENCE BETWEEN THE SUM OF THE ASSETS AND THE
             02SUM OF THE LIABILITIES.  WHERE APPLICABLE, FUND BALAN
             03CE ACCOUNTS MAY BE MAINTAINED TO IDENTIFY UNAPPROPRIA
             04TED SURPLUS AND SPECIFIC RESERVES.  INDIVIDUAL STATE
             05LAW, HOWEVER, DETERMINES THE EXTENT OF DETAIL RECORDE
             06D IN FUND BALANCE ACCOUNTS.  UNLIKE MANY LOCAL SCHOOL
             07 DISTRICTS, FEW STATE EDUCATION AGENCIES ARE ALLOWED
             08TO CARRY FORWARD UNAPPROPRIATED BALANCES FROM ONE FIS
             09CAL YEAR TO ANOTHER.  MOREOVER, IN MANY STATES THE ES
             10TABLISHMENT OF RESERVES AGAINST UNAPPROPRIATED SURPLU
             11S IS ILLEGAL.  IN SOME STATES THE FUND BALANCE REVERT
             12S TO THE STATE TREASURY.


DOCUMENT:  VII                   PAGE:  0104     SEQUENCE ID:  A

STATUS=1     GLOSSARY SEQUENCE= 0     PREFERRED=0

SCOPE NOTE:  NONPUBLIC SCHOOL

DEFINITION:
```

EDIT AND ERROR REPORTS

```
APR 10, 1979                                              ERROR TRANSACTIONS
                                                  (MAKE CORRECTIONS AND RESUBMIT RUN)



TRANSACTION CARD***SEAUTHORIZING AGENCIES   INSTITUTIONAL ACCREDITATION                              ***

        ERROR TYPE 14: REFERENCED CONTROLLED VOCABULARY TERM NOT FOUND IN CLASSIFICATION SCHEDULES


TRANSACTION CARD***MSESTIMATED REVENUES     ANTICIPATED RECEIPTS                                     ***

        ERROR TYPE 14: REFERENCED CONTROLLED VOCABULARY TERM NOT FOUND IN CLASSIFICATION SCHEDULES


TRANSACTION CARD***UAINSTITUTIONAL ACCRED   INSTITUTIONAL ACCREDITATION                              ***

        ERROR TYPE 14: REFERENCED CONTROLLED VOCABULARY TERM NOT FOUND IN CLASSIFICATION SCHEDULES


TRANSACTION CARD***LE                       INSTRUCTIONAL STAFF                                      ***

        ERROR TYPE 18: ENTRY ALREADY EXISTS IN MASTER FILE


TRANSACTION CARD***  NONRESIDENT ALIENS                                                              ***

        ERROR TYPE 15: INVALID LEAD-IN ENTRY UNIT


TRANSACTION CARD***URNONRESTIDENT ALIENS    SOCIOECONOMIC CHARACTERISTICS                            ***

        ERROR TYPE 15: INVALID LEAD-IN ENTRY UNIT


TRANSACTION CARD***LE                       SCHOOL SYSTEM ANNEXATION                                 ***

        ERROR TYPE 18: ENTRY ALREADY EXISTS IN MASTER FILE
```

```
APR 05, 1979                                          SOURCE TERM TRANSACTION EDIT
                                                 SOURCE TYPE:  I, SOURCE DOCUMENT:      XI
-----------------------------------------------------------------------------------------------------
          I.D.      TERM
-----------------------------------------------------------------------------------------------------
PAGE 0016
            A       ENGINEERING AND ENGINEERING TECHNOLOGY

            B       RESEARCH AND DEVELOPMENT

            C       DESIGN AND SYSTEMS

          * D       OPERATIONS

          * E       ENGINEERING MANAGEMENT

          * F       SALES AND APPLICATIONS

* MEANS ENTRY WAS ADDED OR CHANGED DURING LAST RUN
```

CLASSIFICATION SCHEDULES UPDATE

Add controlled vocabulary term

```
   CAccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Controlled Vocabulary Term
```

Delete controlled vocabulary term

```
   CDccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Controlled Vocabulary Term
```

Change classification code

```
   CCccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID        New Code               Controlled Vocabulary Term
```

Change spelling of controlled vocabulary term

```
   CSbbbbbbbbbbbbbbbbbbbbbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID        Blank                       Incorrect Spelling

   CSccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code               Corrected Spelling
```

THESAURUS UPDATE

Add or modify thesaurus scope note

```
          Snccccccccccccccccccccbbbtttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttttt
Tran  Card  Classification Code              Text of Scope Note
 ID    No
```

Delete thesaurus scope note

```
          DSccccccccccccccccccccbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
   Tran ID  Classification Code                 Blank
```

Add "related term" reference

```
          RTccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbbbbb
   Tran ID  Classification Code          Reference Term
```

Delete "related term" reference

```
          DRccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbbbbb
   Tran ID  Classification Code          Reference Term
```

Add reciprocated "broader term" reference

```
          BRccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbbbbb
   Tran ID  Classification Code          Reference Term
```

Add non-reciprocated "broader term" reference

```
          BTccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbbbbb
   Tran ID  Classification Code          Reference Term
```

Delete "broader term" reference

```
DBccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Add reciprocated "narrower term" reference

```
NRccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Add non-reciprocated "narrower term" reference

```
NTccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Delete "narrower term" reference

```
DNccccccccccccccccccccbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Add "used for" reference

```
UFccccccccccccccccccccbbbllllllllllllllllllllllllllllllllllllllllbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Delete "used for" reference

```
DFccccccccccccccccccccbbbllllllllllllllllllllllllllllllllllllllllbbbbbbbbbbbbbbb
Tran ID  Classification Code          Reference Term
```

Add lead-in entry term

```
        LEbbbbbbbbbbbbbbbbbbbbbbbllllllllllllllllllllllllllllllllllllllllbbbbbbbbbbbbbbb
Tran ID            Blank                     Lead-in Entry Term
```

Add reciprocated "use" reference

```
        URllllllllllllllllllllbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Lead-in Entry Term                Reference Term
```

Add non-reciprocated "use" reference

```
        UNllllllllllllllllllllbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Lead-in Entry Term                Reference Term
```

Add "use and" reference

```
        UAllllllllllllllllllllbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Lead-in Entry Term                Reference Term
```

Add "see" reference

```
        SEllllllllllllllllllllbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbb
Tran ID  Lead-in Entry Term                Reference Term
```

Replace "use" reference

```
        MUllllllllllllllllllllbbbvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvbbbbbbbbbbbbbbb
Tran ID  Lead-in Entry Term                Reference Term
```

Replace "use and" reference

$$\underbrace{\texttt{MA}}_{\textit{Tran ID}}\underbrace{\texttt{llllllllllllllllllll}}_{\textit{Lead-in Entry Term}}\texttt{bbb}\underbrace{\texttt{vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv}}_{\textit{Reference Term}}\texttt{bbbbbbbbbbbbbbb}$$

Replace "see" reference

$$\underbrace{\texttt{MS}}_{\textit{Tran ID}}\underbrace{\texttt{llllllllllllllllllll}}_{\textit{Lead-in Entry Term}}\texttt{bbb}\underbrace{\texttt{vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv}}_{\textit{Reference Term}}\texttt{bbbbbbbbbbbbbbb}$$

Delete lead-in entry term

$$\underbrace{\texttt{DL}}_{\textit{Tran ID}}\underbrace{\texttt{llllllllllllllllllll}}_{\textit{Lead-in Entry Term}}\underbrace{\texttt{bbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb}}_{\textit{Blank}}$$

ADD NEW OCCURRENCES TO SOURCE TERM FILE

Add source term

```
1sddddddddddddddddppppqqqbbbbbbbbbbttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID *Source Type* *Document* *Page* *Sequence* *Source Term*

Update source term

```
UsddddddddddddddddppppqqqbbbbbbbbbbTttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID *Source Type* *Document* *Page* *Sequence* *New Version of Source Term*

Add or update continuation of source term

```
nbddddddddddddddddppppqqqttttttttttttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID *Document* *Page* *Sequence* *Continuation of Source Term*

Delete source term

```
Dbddddddddddddddddppppqqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
```

Tran ID *Document* *Page* *Sequence* *Blank*

SOURCE TERM UPDATE

Update glossary structure code

```
      GCkkkkkbbbbbbbbbbbbbbbbbbggggggggggggggggggggggggggggggbbbbbbbbbbbbbbbbbbbbbbbbb
Tran ID Term ID                  Glossary Structure Code
```

Add glossary cross-reference

```
      AXkkkkkbbbbbbbbbbbbbbbbbbrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
Tran ID Term ID                                  Text of Cross-reference
```

Delete glossary cross-reference

```
      DXkkkkkbbbbbbbbbbbbbbbbbbrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
Tran ID Term ID                                  Text of Cross-reference
```

List source term

```
      LTkkkkkbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
Tran ID Term ID                                  Blank
```

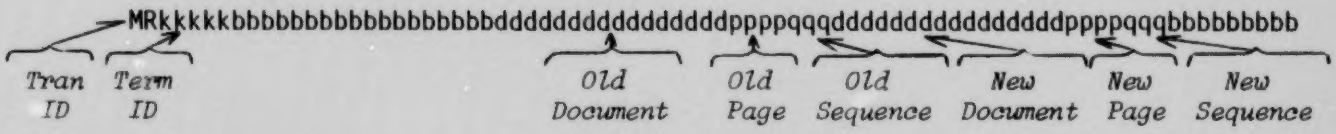
Delete source term

```
      DTkkkkkbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
Tran ID Term ID                                  Blank
```

Update source type

```
      Tskkkkkbbbbbbbbbbbbbbbbbbddddddddddddddddppppqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
 Tran Source Term                    Document   Page Sequence
  ID   Type   ID
```

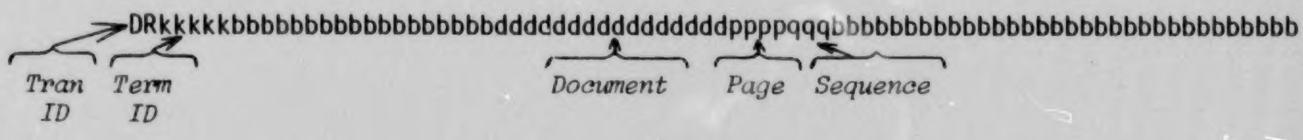
Update occurrence identifier



```
MRkkkkkbbbbbbbbbbbbbbbbbbddddddddddddddddppppqqqddddddddddddddddppppqqqbbbbbbbbb
```

Tran ID
Term ID
Old Document
Old Page
Old Sequence
New Document
New Page
New Sequence

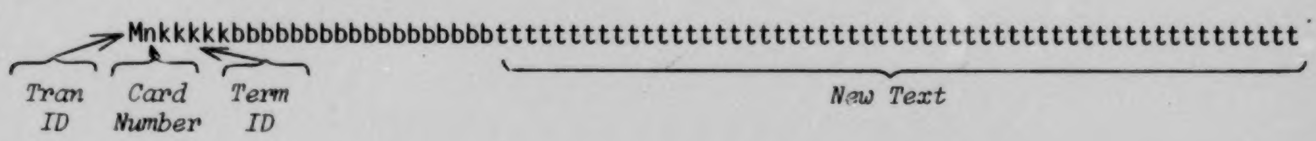
Delete occurrence



```
DRkkkkkbbbbbbbbbbbbbbbbbbddddddddddddddddppppqqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
```

Tran ID
Term ID
Document
Page
Sequence

Update text of source term



```
Mnkkkkkbbbbbbbbbbbbbbbbbbttttttttttttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID
Card Number
Term ID
New Text

DEFINITION UPDATE

Add or update definition text

```
SDddddddddddddddppppqqnntttttttttttttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID · *Document* · *Page* · *Sequence* · *Card No* · *Text of Definition*

Add, update, or delete definition scope note

```
SNddddddddddddddppppqqtttttttttttttttttttttttttttttttttttttttttttttttttttttttttt
```

Tran ID · *Document* · *Page* · *Sequence* · *Text of Scope Note*

Update definition flags

```
MFddddddddddddddppppqqsoopbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
```

Tran ID · *Document* · *Page* · *Sequence* · *Status Flag* · *Definition Sequence* · *Preferred Flag*

List definition

```
LDddddddddddddddppppqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
```

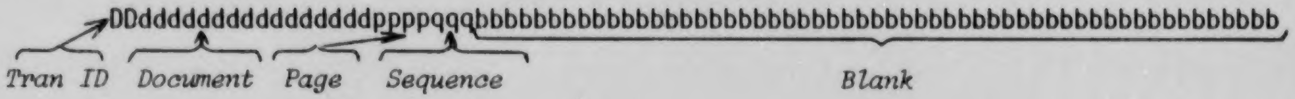
Tran ID · *Document* · *Page* · *Sequence* · *Blank*

Update occurrence identifier

```
RRddddddddddddddppppqqddddddddddddddppppqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
```

Tran ID · *Old Document* · *Old Page* · *Old Sequence* · *New Document* · *New Page* · *New Sequence*

Delete definition


DDddddddddddddddddppppqqqbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbbb
Tran ID
Document
Page
Sequence
Blank

APPENDIX C: TRANSACTION ERROR MESSAGES

ERROR
TYPE

1 INVALID TRANSACTION TYPE

Explanation

The transaction identifier in columns 1 and 2 is incorrect.

Probable Cause

1. A data entry error occurred.
2. The transaction is appropriate to an update procedure different from that being run.

Corrective Action

1. Change columns 1 and 2 to the correct transaction identifier.
2. Remove the card and submit it with the appropriate update procedure.

2 TERM OR CODE IS TOO LONG

Explanation

A non-blank character was found in columns 23-25 or columns 66-80 and the transaction identifier does not correspond to a change that allows characters in these positions.

Probable Cause

1. The term is more than 40 characters long.
2. The code is more than 20 characters long.
3. A stray character was inadvertently entered in one of these fields.
4. The transaction identifier is incorrect.

Corrective Action

1. Make the term shorter.
2. Make the code shorter.
3. Remove the stray character(s).
4. Correct the transaction identifier.

ERROR TYPE

3 CODE IS BLANK OR CONTAINS NON-NUMERIC CHARACTERS

Explanation

A transaction requiring a numeric code in columns 3-22 contains one or more alphabetic or special characters in these columns or is blank.

Probable Cause

A data entry error occurred.

Corrective Action

Correct the code.

4 FIRST CHARACTER OF TERM IS BLANK

Explanation

Column 26 is blank on a transaction requiring an entry in this position.

Probable Cause

1. The entry is offset.
2. The field was left blank.
3. The transaction identifier is incorrect.

Corrective Action

1. Reenter the field in the correct columns.
2. Fill in the missing data.
3. Correct the transaction identifier.

5 CODE IS CURRENTLY IN USE FOR TERM "XXXX"

Explanation

The code specified in columns 3-22 on a "CA" or "CC" transaction is already being used in the classification schedules.

Probable Cause

An outdated Classification Schedules Report was used in generating the transactions.

ERROR TYPE

Corrective Action

Change the code to one that is not being used in the current version of the classification schedules. (Print a copy of the current version if one is not available for reference.)

6 TERM ALREADY EXISTS IN CLASSIFICATION SCHEDULES WITH CODE "XXXX"

Explanation

The term specified in columns 26-65 of a "CA" or "CS" transaction is already being used in the classification schedules.

Probable Cause

1. An outdated Thesaurus Report or Classification Schedules Report was used in generating the transactions.

2. The old spelling was placed on the wrong card on a spelling change.

Corrective Action

1. Remove the card (both cards for "CS").

2. Correct the cards, making sure the old spelling is placed on the card with the blank code.

7 CODE APPEARS ON ANOTHER TRANSACTION WITH TERM "XXXX"

Explanation

Input to the run includes more than one add and/or change transaction for the same code.

Probable Cause

1. Two or more identical transactions were submitted.

2. Transactions have been submitted associating more than one term with the same code.

Corrective Action

Locate all transaction cards containing the code specified in the rejected transaction; and:

ERROR
TYPE

1. Remove any duplicate transactions.
2. Correct transactions so that all codes are unique.

8 TERM APPEARS ON ANOTHER TRANSACTION WITH CODE "XXXX"

Explanation

Input to the run includes more than one add and/or change transaction for the same term.

Probable Cause

1. Two or more identical transactions were submitted.
2. Transactions have been submitted associating more than one code with the same term.

Corrective Action

Locate all transaction cards containing the term specified in the rejected transaction. Determine which code is desired for that term and remove all the remaining transactions that duplicate the term.

9 CODE NOT FOUND IN CLASSIFICATION SCHEDULES

Explanation

A code to be changed or deleted is not in the current version of the classification schedules.

Probable Cause

An outdated Classification Schedules Report was used in generating the transactions or a data entry error occurred.

Corrective Action

Check the transaction against a current Classification Schedules Report and correct the code or remove the transaction.

10 TERM NOT FOUND IN CLASSIFICATION SCHEDULES

Explanation

A term to be changed or deleted is not in the current version of the classification schedules.

ERROR
TYPE

Probable Cause

1. The term was "misspelled" (e.g., "INSTRUCTIONAL" instead of "INSTRUCTION") or an outdated Classification Schedules Report was used in generating the transactions or a data entry error occurred.

2. The new spelling was placed on the wrong card on a spelling change.

Corrective Action

1. Check the transaction against a current Classification Schedules Report and correct the term or remove the transaction.

2. Correct the cards, making sure the new spelling is placed on the card with the numeric code.

11 CODE "XXXX" IS ASSOCIATED WITH THIS TERM IN THE CLASSIFICATION SCHEDULES

Explanation

The code and term specified for deletion are not the same combination of code and term that appears in the current version of the classification schedules.

Probable Cause

An outdated Classification Schedules Report was used in generating the transactions or a data entry error occurred.

Corrective Action

Check the transaction against a current Classification Schedules Report and correct the field that is in error.

12 SPELLING CHANGE TRANSACTION NOT PAIRED OR CODE AND OLD SPELLING DO NOT MATCH

Explanation

A valid pair of transactions for a spelling change was not found, either because one card was missing or because the code and old spelling on the cards are not the same combination of code and term that appears in the current version of the classification schedules.

ERROR
TYPE

Probable Cause

One card was omitted or a data entry error occurred.

Corrective Action

Correct the cards, or add the missing card, making sure the old spelling and the code match the current version of the classification schedules.

13 TERM EXISTS IN CLASSIFICATION SCHEDULES--MAY NOT BE USED AS A LEAD-IN ENTRY

Explanation

A term to be added as a lead-in entry already is in use as a controlled vocabulary term.

Probable Cause

An outdated version of the Thesaurus Report was used in generating transactions.

Corrective Action

Remove all cards associated with the lead-in entry unit.

14 REFERENCED CONTROLLED VOCABULARY TERM NOT FOUND IN CLASSIFICATION SCHEDULES

Explanation

A reference to be added to the thesaurus is not in the current version of the classification schedules.

Probable Cause

1. An outdated Classification Schedules Report or Thesaurus Report was used in generating the transactions.

2. A data entry error occurred.

Corrective Action

1. Remove the transaction.

2. Correct the spelling of the term.

ERROR
TYPE

15 INVALID LEAD-IN ENTRY UNIT

Explanation

The transactions submitted to add or change a lead-in entry do not form a valid unit.

Probable Cause

1. One of the cards in the unit was rejected.
2. The lead-in entry is not unique within the first 20 characters.
3. An incorrect number of references was submitted.
4. An error on another transaction triggered rejection of the unit in question.*

Corrective Action

1. Refer to the other message for the rejected unit (e.g., TERM OR CODE TOO LONG) and correct that error.
2. Find all transactions associated with the first 20 characters of the lead-in and rephrase each lead-in to be unique in the first 20 characters, modifying the associated reference(s) to match.
3. Make sure the unit conforms to one of the groups below. No other combinations are allowed.

LE	LE	LE	MR	MA	MS
UR	UA	SE		:	:
	:	:		MA	MS
	UA	SE			

4. If no error can be detected and other errors occurred in the run, resubmit the unit unchanged, making sure the other errors in the run have been corrected. Be sure to check that columns 3-22 are identical to the first 20 characters of the lead-in entry term and that the cards conform to one of the valid units listed in 3 above.

---

*This can occur because processing of Mark IV type 1 transaction requests occurs concurrently with processing of regular Mark IV requests. It will only happen when there is an error on the next transaction being processed.

ERROR
TYPE

16 LEAD-IN ENTRY ADDED THIS RUN--MAY NOT BE MODIFIED IN THE SAME RUN

Explanation

Transactions have been included both to add a lead-in entry and to modify it.

Probable Cause

The person generating the transactions came across new information requiring modification of the original unit of references.

Corrective Action

Remove all cards related to the lead-in entry. Modify the original lead-in entry unit to contain the revised set of references.

17 ENTRY NOT FOUND IN MASTER FILE

Explanation

The entry to be changed or deleted was not found in the master file.

Probable Cause

An outdated report was used in generating transactions or a data entry error occurred. May also occur for reference transactions if a lead-in entry term was too long.

Corrective Action

If the transaction is to add a reference or scope note to the thesaurus, check the *code* against the current version of the Thesaurus Report and correct or remove the transaction as necessary.

If the transaction relates to a lead-in entry, make sure the first 20 characters of the lead-in (columns 3-22) are spelled the same as the actual lead-in entry term in the current version of the thesaurus or the term specified on the "LE" card. If the "LE" card was rejected because the term was too long, rephrase the term, making sure the references reflect the new phrasing.

ERROR
TYPE

If the transaction relates to a source term, check the term identifier against the current version of the glossary. Make sure the term identifier is right justified in columns 3-7.

18 ENTRY ALREADY EXISTS IN MASTER FILE

Explanation

The entry to be added already exists in the master file.

Probable Cause

The first 20 characters of a lead-in entry are not unique or an outdated version of the Thesaurus Report was used in generating transactions.

Corrective Action

Check the current version of the Thesaurus Report as well as all "LE" transactions for a lead-in entry with the same first 20 characters. Rephrase entry so that it is unique within the first 20 characters and change all cards in the lead-in entry unit to reflect the new phrasing.

19 REFERENCE NOT FOUND IN MASTER RECORD

Explanation

A thesaurus reference, a glossary cross-reference, or a source term occurrence to be deleted was not found in the record specified.

Probable Cause

An outdated report was used in generating transactions or a data entry error occurred.

Corrective Action

If the transaction relates to the thesaurus, check a current version of the Thesaurus Report to see that the code was specified correctly and the reference exists and was spelled correctly. If the transaction relates to the glossary, check the current version of the glossary or run an "LT" transaction to list the current contents of the source term record. Make sure the term ID was specified correctly and the cross-reference or occurrence identifier is identical to that occurring in the master file.

ERROR
TYPE

20 MAXIMUM RECORD LENGTH EXCEEDED

Explanation

The record is full.

Probable Cause

A commonly used term has too many references or occurrences.

Corrective Action

Review the current contents of the record. (For the thesaurus, use a current version of the Thesaurus Report. For the source term file, run an "LT" transaction.) Run the update procedure with delete transactions to eliminate the less important references or occurrences before trying to apply the transaction rejected in the current run.

21 COUNT FIELD OVERFLOW

Explanation

The count field for the segment represented by the rejected transaction is full. No more segments of this type can be added.

Probable Cause

A commonly used term has too many references or occurrences.

Corrective Action

Review the current contents of the record. (For the thesaurus, use a current version of the Thesaurus Report. For the source term file, run an "LT" transaction.) Run the update procedure with delete transactions for the less important references or occurrences of the *same type* as that rejected before trying to apply the rejected transaction.

22 INVALID GLOSSARY STRUCTURE CODE

Explanation

The classification portion of the glossary structure code is not identical to any code in the classification schedules.

ERROR
TYPE

Probable Cause

An outdated version of the Classification Schedules Report was used in generating transactions or a data entry error occurred.

Corrective Action

Make sure the code in columns 26-45 is identical to a code in the current classification schedules.

23 INVALID GLOSSARY STRUCTURE CODE

Explanation

The source term is identical to a controlled vocabulary term and the classification portion of the glossary structure code is not the code assigned to this controlled vocabulary term.

Probable Cause

The person generating the transactions did not realize the source term was also a controlled vocabulary term or a data entry error occurred.

Corrective Action

Make sure the code in columns 26-45 is identical to the code in the current classification schedules for this controlled vocabulary term.

24 INVALID GLOSSARY STRUCTURE CODE

Explanation

The source term is identical to a controlled vocabulary term and the glossary portion of the glossary structure code is not blank.

Probable Cause

The person generating the transactions did not realize the source term was also a controlled vocabulary term or a data entry error occurred.

Corrective Action

Make sure columns 46-55 are blank.

ERROR
TYPE

25 INVALID GLOSSARY STRUCTURE CODE

Explanation

The source term is not a controlled vocabulary term and the glossary portion of the glossary structure code is blank.

Probable Cause

A data entry error occurred.

Corrective Action

Enter the desired glossary portion of the glossary structure code in columns 46-55.

98 CONTROL TABLE FOR SETTING TERM IDENTIFIER DOES NOT EXIST IN M4LIB

Explanation

The control table for setting the term identifier does not exist in the current Mark IV library.

Probable Cause

A new Mark IV library has been created, or the table has been deleted from the old library.

Corrective Action

Execute the following procedure before attempting to update the source term file.

```
//        job
//EDASTBLD  EXEC  PROC=EDAPTBLD
//
```

If for any reason the procedure cannot be executed, reload the table using Mark IV library maintenance, making certain that the term identifier in the table represents the highest term identifier currently in use in either of the source term files. The structure of the table is described in Appendix H.

ERROR
TYPE

99 TRANSACTION REJECTED--UNIDENTIFIED ERROR

Explanation

A transaction was rejected that did not trigger any of the prior messages.

Probable Cause

The source code for request EDA4TERP has been modified.

Corrective Action

Check the transaction against the transaction generation instructions and restrictions and correct any errors found. If the source code has been modified, review the modified code for changes in logic that bypass the relevant error message. If no errors can be found, remove the transaction until the problem can be traced.

APPENDIX D: PROCEDURE LISTINGS

Usual Default Values for Symbolic Parameters

```
#COPIES=03 or #COPIES=01
BATCH=A
CVER=1
DATE=
DAYS=5
DELAYPT=CATLG
DISK=D03042
EDITOLD='DUMMY,'
GENC='(0)'
GENS='(0)'
GENSM='(0)'
GENT='(0)'
GEN2='(+1)'
LTONLY=
MARK4='HEW.R5.MARK4'
M4LIB=HEWGEMKF
NEWSPAC=50 or NEWSPAC=30
NVER=1
REGP=300K or REGP=350K
REGS=200K
REPORT=
TXTUPDT='DUMMY,'
THES='DUMMY,'
UNQ=2
```

UPDATE PROCEDURES

```
IEBEDIT LISTING                                          PAGE 0001

//EDAPUC    PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//          REGP=300K,REGS=200K,GENC='(0)',GENT='(0)',GENS='(0)',
//          GENSM='(0)'
//UC2       EXEC PGM=IEFBR14
//DD1       DD   UNIT=3330,VOL=(PRIVATE,RETAIN,,SER=&DISK),DISP=SHR
//UC1       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=EDA.D04LIB(EDA4UC01),DISP=OLD,UNIT=3330
//SORTOUT   DD   DSN=&&EDA4CV,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
//SYSOUT    DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//UC3       EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=EDA.D04SQCS&GENC,DISP=OLD,UNIT=3330
//M4TRAN    DD   DSN=&&EDA4CV,DISP=(OLD,PASS),UNIT=SYSDA
//M4SUBF1   DD   DSN=&&EDA4P1,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4REPO    DD   DSN=&&EDA4R1,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4UC03),DISP=OLD,UNIT=3330
//UC4       EXEC PGM=IGHRC000,REGION=&REGS,COND=EVEN
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=EDA.D04LIB(EDA4UC04),DISP=OLD,UNIT=3330
//SORTIN    DD   DSN=&&EDA4P1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT   DD   DSN=&&EDA4CD,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//SYSOUT    DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//UC5       EXEC PGM=MARKIV,REGION=REGP,COND=EVEN
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=EDA.D04TH&GENT,DISP=OLD,UNIT=3330
//M4TRAN    DD   DSN=&&EDA4CD,DISP=(OLD,DELETE),UNIT=SYSDA
//M4SUBF1   DD   DSN=&&EDA4P2,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4REPO    DD   DSN=&&EDA4P2,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4UC05),DISP=OLD,UNIT=3330
//UC6       EXEC PGM=MARKIV,REGION=&REGP,COND=((8,LT,UC3),(8,LT,UC5))
//STEPCAT   DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
```

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//M4LIB     DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD    DSN=EDA.D04SQCS&GENC,DISP=OLD,UNIT=3330
//M4NEW     DD    DSN=EDA.D04SQCS(+1),DISP=(NEW,CATLG),UNIT=3330,
//          VOL=SER=&DISK,SPACE=(TRK,(5,5),RLSE)
//M4SUBF1   DD    DSN=&&EDA4TT,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(TRK,(1,1))
//M4TRAN    DD    DSN=&&EDA4CV,DISP=(OLD,DELETE),UNIT=SYSDA
//M4REPO    DD    DSN=&&EDA4R3,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4SORT    DD    DSN=&&EDA4S3,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(TRK,1)
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4UC06),DISP=OLD,UNIT=3330
//UC7       EXEC PGM=IGHRCO00,REGION=&REGS,COND=(0,NE,UC6)
//SORTLIB   DD    DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD    DSN=&&EDA4S3,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTIN    DD    DSN=&&EDA4R3,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT   DD    DSN=&&EDA4R4,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//SYSOUT    DD    SYSOUT=A
//SORTWK01 DD     UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD     UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD     UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//UC8       EXEC PGM=MARKIV,REGION=&REGS,COND=(0,NE,UC7)
//STEPLIB   DD    DSN=&MARK4,DISP=SHR
//M4REPI    DD    DSN=&&EDA4R4,DISP=(OLD,DELETE),UNIT=SYSDA
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//UC9       EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UC6)
//STEPLIB   DD    DSN=&MARK4,DISP=SHR
//M4LIB     DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4UC09),DISP=OLD,UNIT=3330
//          DD    DSN=&&EDA4TT,DISP=(OLD,DELETE),UNIT=SYSDA
//UC10      EXEC PGM=IDCAMS,REGION=&REGP,COND=(0,NE,UC6)
//STEPCAT   DD    DSN=EDA.D04CAT,DISP=SHR
//DD1       DD    UNIT=3330,VOL=SER=&DISK,DISP=SHR
//SYSPRINT DD     SYSOUT=A
//SYSIN     DD    DSN=EDA.D04LIB(EDA4UC10),DISP=OLD,UNIT=3330
//UC11      EXEC PGM=IDCAMS,REGION=&REGP,COND=(0,NE,UC10)
//STEPCAT   DD    DSN=EDA.D04CAT,DISP=SHR
//DD2       DD    UNIT=3330,VOL=SER=&DISK,DISP=SHR
//SYSPRINT DD     SYSOUT=A
//SYSIN     DD    DSN=EDA.D04LIB(EDA4UC11),DISP=OLD,UNIT=3330
//UC12      EXEC PGM=IDCAMS,REGION=&REGP,COND=(0,NE,UC11)
//STEPCAT   DD    DSN=EDA.D04CAT,DISP=SHR
//DD1       DD    UNIT=3330,VOL=SER=&DISK,DISP=SHR
//INDATA    DD    DSN=EDA.D04SQCS(+1),DISP=OLD,UNIT=3330,
//          DCB=(RECFM=FB,LRECL=60,BLKSIZE=6000)
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 //SYSPRINT DD   SYSOUT=A
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UC12),DISP=OLD,UNIT=3330
 //UC13     EXEC PGM=IDCAMS,REGION=&REGP,COND=(0,NE,UC12)
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
 //DD1      DD   UNIT=3330,VOL=SER=&DISK,DISP=SHR
 //BASE     DD   DSN=EDA.D04VCST,DISP=OLD
 //INDEX    DD   DSN=EDA.D04VCSCI,DISP=OLD
 //SYSPRINT DD   SYSOUT=A
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UC13),DISP=OLD,UNIT=3330
 //UC14     EXEC PGM=IGHRCO00,REGION=&REGS,COND=(0,NE,UC13)
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UC14),DISP=OLD,UNIT=3330
 //SORTIN   DD   DSN=&&EDA4P2,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=&&EDA4UT,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(1,1))
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UC15     EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UC14)
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=EDA.D04TH&GENT,DISP=OLD,UNIT=3330
 //M4NEW    DD   DSN=EDA.D04TH(+1),DISP=(NEW,CATLG),UNIT=3330,
 //         VOL=SER=&DISK,SPACE=(TRK,(20,5),RLSE)
 //M4TRAN   DD   DSN=&&EDA4UT,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4SUBF1  DD   DSN=&&EDA4CT,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(TRK,(1,1))
 //M4CORD1  DD   DSN=EDA.D04VCSCP,DISP=OLD
 //M4REPO   DD   DSN=&&EDA4R5,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(1,1))
 //M4SORT   DD   DSN=&&EDA4S5,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(TRK,1)
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4UC15),DISP=OLD,UNIT=3330
 //UC16     EXEC PGM=IGHRCO00,REGION=&REGS,COND=(0,NE,UC15)
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=&&EDA4S5,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTIN   DD   DSN=&&EDA4R5,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=&&EDA4R6,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(1,1))
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UC17     EXEC PGM=MARKIV,REGION=&REGS,COND=(0,NE,UC16)
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4REPI   DD   DSN=&&EDA4R6,DISP=(OLD,DELETE),UNIT=SYSDA
```

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//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4M4RP),DISP=SHR,UNIT=3330
//UC18      EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UC15)
//STEPLIB   DD    DSN=&MARK4,DISP=SHR
//M4LIB     DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4UC18),DISP=OLD,UNIT=3330
//          DD    DSN=&&EDA4CT,DISP=(OLD,DELETE),UNIT=SYSDA
//UC19      EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UC18)
//STEPLIB   DD    DSN=&MARK4,DISP=SHR
//M4LIB     DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD    DSN=EDA.D04MST&GENS,DISP=OLD,UNIT=3330
//M4NEW     DD    DSN=EDA.D04MST(+1),DISP=(NEW,CATLG),UNIT=3330,
//          VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
//M4REPO    DD    DSN=&&EDA4RX,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4UC19),DISP=OLD,UNIT=3330
//UC20      EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UC18)
//STEPLIB   DD    DSN=&MARK4,DISP=SHR
//M4LIB     DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD    DSN=EDA.D04SJM&GENSM,DISP=OLD,UNIT=3330
//M4NEW     DD    DSN=EDA.D04SJM(+1),DISP=(NEW,CATLG),UNIT=3330,
//          VOL=SER=&DISK,SPACE=(TRK,(200,20),RLSE)
//M4REPO    DD    DSN=&&EDA4SM,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4LIST    DD    SYSOUT=A
//M4INPUT   DD    DSN=EDA.D04LIB(EDA4UC20),DISP=OLD,UNIT=3330
//UC21      EXEC PGM=IEFBR14,COND=ONLY
//CS        DD    DSN=EDA.D04SQCS(+1),DISP=(,DELETE),UNIT=3330
//TH        DD    DSN=EDA.D04MTH(+1),DISP=(,DELETE),UNIT=3330
//ST        DD    DSN=EDA.D04MST(+1),DISP=(,DELETE),UNIT=3330
//SM        DD    DSN=EDA.D04SJM(+1),DISP=(,DELETE),UNIT=3330
//EDA4UC    PEND
```

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 //EDAPUT    PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //          REGP=300K,REGS=200K,GENT='(0)'
 //UT1       EXEC PGM=MARKIV,REGION=&REGS
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4NEW     DD   DSN=&&EDA4IN,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4UT01),DISP=OLD,UNIT=3330
 //UT2       EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD   DSN=EDA.D04LIB(EDA4UT02),DISP=OLD,UNIT=3330
 //SORTIN    DD   DSN=&&EDA4IN,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT   DD   DSN=&&EDA4T1,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //SYSOUT    DD   SYSOUT=A
 //SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //MP        EXEC PGM=IEFBR14
 //DD1       DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
 //UT4       EXEC PGM=MARKIV,REGION=&REGP
 //STEPCAT   DD   DSN=EDA.D04CAT,DISP=SHR
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD     DD   DSN=EDA.D04TH&GENT,DISP=OLD,UNIT=3330
 //M4TRAN    DD   DSN=&&EDA4T1,DISP=(OLD,PASS),UNIT=SYSDA
 //M4SUBF1   DD   DSN=&&EDA4PS,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //M4CORD1   DD   DSN=EDA.D04VCST,DISP=OLD
 //M4REPO    DD   DSN=&&EDA4P2,DISP=(NEW,DELETE),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4UT04),DISP=OLD,UNIT=3330
 //UT5       EXEC PGM=IGHRC000,REGION=&REGS,COND=(8,LT,UT4)
 //SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD   DSN=EDA.D04LIB(EDA4UT05),DISP=OLD,UNIT=3330
 //SORTIN    DD   DSN=&&EDA4PS,DISP=(OLD,DELETE),UNIT=SYSDA
 //          DD   DSN=&&EDA4T1,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT   DD   DSN=&&EDA4T2,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //SYSOUT    DD   SYSOUT=A
 //SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UT6       EXEC PGM=MARKIV,REGION=&REGS,COND=(8,LT,UT4)
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD     DD   DSN=EDA.D04TH&GENT,DISP=OLD,UNIT=3330
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 //M4NEW     DD    DSN=EDA.D04TH(+1),DISP=(NEW,CATLG),UNIT=3330,
 //          VOL=SER=&DISK,SPACE=(TRK,(20,5),RLSE)
 //M4TRAN    DD    DSN=&&EDA4T2,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4REPO    DD    DSN=&&EDA4R5,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //M4SORT    DD    DSN=&&EDA4S5,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(TRK,1)
 //M4LIST    DD    SYSOUT=A
 //M4INPUT   DD    DSN=EDA.D04LIB(EDA4UT06),DISP=OLD,UNIT=3330
 //UT7       EXEC PGM=IGHRC000,REGION=&REGS,COND=(0,NE,UT6)
 //SORTLIB   DD    DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD    DSN=&&EDA4S5,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTIN    DD    DSN=&&EDA4R5,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT   DD    DSN=&&EDA4R6,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //SYSOUT    DD    SYSOUT=A
 //SORTWK01  DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02  DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03  DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UT8       EXEC PGM=MARKIV,REGION=&REGS,COND=(0,NE,UT7)
 //STEPLIB   DD    DSN=&MARK4,DISP=SHR
 //M4REPI    DD    DSN=&&EDA4R6,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4LIST    DD    SYSOUT=A
 //M4INPUT   DD    DSN=EDA.D04LIB(EDA4M4RP),DISP=SHR,UNIT=3330
 //UT9       EXEC PGM=IEFBR14,COND=ONLY
 //TH        DD    DSN=EDA.D04MTH(+1),DISP=(,DELETE),UNIT=3330
 //EDA4UT    PEND
```

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 //EDAPES    PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,
 //          REGP=200K,BATCH=A,CVER=,NVER=1,EDITOLD='DUMMY,',DAYS=30
 //ES1       EXEC PGM=IGHRCO00,REGION=&REGP
 //SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD   DSN=EDA.D04LIB(EDA4ES01),DISP=OLD,UNIT=3330
 //SORTOUT   DD   DSN=&&EDA4ES,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
 //SYSOUT    DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //ES2       EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD     DD   &EDITOLD.DSN=EDA.D04STIN.B&BATCH.V&CVER,UNIT=1600BPI,
 //          DISP=OLD
 //M4NEW     DD   DSN=EDA.D04STIN.B&BATCH.V&NVER,DISP=(NEW,CATLG),
 //          UNIT=1600BPI,LABEL=RETPD=&DAYS
 //M4REPO    DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //M4TRAN    DD   DSN=&&EDA4ES,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4ES02),DISP=OLD,UNIT=3330
 //EDASE     PEND
```

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 //EDAPIS    PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //          REGP=300K,REGS=200K,GENS='(0)',BATCH=A,CVER=1.REPORT=,
 //          GEN2='(+1)'
 //IS1       EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD   DSN=EDA.D04LIB(EDA4IS01),DISP=OLD,UNIT=3330
 //SORTIN    DD   DSN=EDA.D04STIN.B&BATCH.V&CVER,DISP=OLD,UNIT=1600BPI
 //SORTOUT   DD   DSN=&&EDA4UT,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //SYSOUT    DD   SYSOUT=A
 //SORTWK01 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //IS2       EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD     DD   DSN=EDA.D04MST&GENS,DISP=OLD,UNIT=3330,
 //          VOL=(PRIVATE,RETAIN,,SER=&DISK)
 //M4NEW     DD   DSN=EDA.D04MST&GEN2,DISP=(NEW,CATLG),UNIT=3330,
 //          VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
 //M4TRAN    DD   DSN=&&EDA4UT,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4SUBP1   DD   DSN=&&EDA4P1,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(TRK,1)
 //M4REPO    DD   &REPORT.DSN=&&EDA4R1,DISP=(NEW,DELETE),UNIT=SYSDA,
 //          SPACE=(CYL,(1,1))
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4IS02),DISP=OLD,UNIT=3330
 //IS3       EXEC PGM=MARKIV.REGION=&REGP,COND=(8,LT,IS2)
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4IS03),DISP=OLD,UNIT=3330
 //          DD   DSN=&&EDA4P1,DISP=(OLD,PASS),UNIT=SYSDA
 //IS5       EXEC PGM=IEFBR14.COND=ONLY
 //SM        DD   DSN=EDA.D04MST(+1),DISP=(,DELETE),UNIT=3330
 //SM2       DD   DSN=EDA.D04MST(+2),DISP=(,DELETE),UNIT=3330
 //EDA4UC    PEND
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//EDAPSMIS PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//            REGP=300K,REGS=200K,GENSM='(0)',BATCH=A,CVER=1,REPORT=,
//            GEN2='(+1)'
//IS1         EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB     DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN       DD   DSN=EDA.D04LIB(EDA4IS01),DISP=OLD,UNIT=3330
//SORTIN      DD   DSN=EDA.D04STIN.B&BATCH.V&CVER,DISP=OLD,UNIT=1600BPI
//SORTOUT     DD   DSN=&&EDA4UT,DISP=(NEW,PASS),UNIT=SYSDA,
//            SPACE=(CYL,(1,1))
//SYSOUT      DD   SYSOUT=A
//SORTWK01 DD      UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD      UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD      UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//IS2         EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB     DD   DSN=&MARK4,DISP=SHR
//M4LIB       DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD       DD   DSN=EDA.D04SJM&GENSM,DISP=OLD,UNIT=3330,
//            VOL=(PRIVATE,RETAIN,,SER=&DISK)
//M4NEW       DD   DSN=EDA.D04SJM&GEN2,DISP=(NEW,CATLG),UNIT=3330,
//            VOL=SER=&DISK,SPACE=(TRK,(200,20),RLSE)
//M4TRAN      DD   DSN=&&EDA4UT,DISP=(OLD,DELETE),UNIT=SYSDA
//M4SUBF1     DD   DSN=&&EDA4P1,DISP=(NEW,PASS),UNIT=SYSDA,
//            SPACE=(TRK,1)
//M4REPO      DD   &REPORT.DSN=&&EDA4R1,DISP=(NEW,DELETE),UNIT=SYSDA,
//            SPACE=(CYL,(1,1))
//M4LIST      DD   SYSOUT=A
//M4INPUT     DD   DSN=EDA.D04LIB(EDA4IS02),DISP=OLD,UNIT=3330
//IS3         EXEC PGM=MARKIV,REGION=&REGP,COND=(8,LT,IS2)
//STEPLIB     DD   DSN=&MARK4,DISP=SHR
//M4LIB       DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4LIST      DD   SYSOUT=A
//M4INPUT     DD   DSN=EDA.D04LIB(EDA4IS03),DISP=OLD,UNIT=3330
//            DD   DSN=&&EDA4P1,DISP=(OLD,PASS),UNIT=SYSDA
//IS5         EXEC PGM=IEFBR14,COND=ONLY
//SM          DD   DSN=EDA.D04SJM(+1),DISP=(,DELETE),UNIT=3330
//SM2         DD   DSN=EDA.D04SJM(+2),DISP=(,DELETE),UNIT=3330
//EDA4UC      PEND
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IEBEDIT LISTING                                          PAGE 0001


//EDAPUS    PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//          REGP=300K,REGS=200K,GENS='(0)',BATCH=A,NVER=1,DAYS=1,
//          TXTUPDT='DUMMY,',LTONLY=
//US1       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=EDA.D04LIB(EDA4US01),DISP=OLD,UNIT=3330
//SORTIN    DD   DSN=EDA.D04MST&GENS,DISP=OLD,UNIT=3330,
//          VOL=(PRIVATE,RETAIN,,SER=&DISK)
//SORTOUT   DD   DSN=&&EDA4MF,DISP=(NEW,PASS),UNIT=SYSDA,
//          VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//US2       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=EDA.D04LIB(EDA4US02),DISP=OLD,UNIT=3330
//SORTOUT   DD   DSN=&&EDA4TN,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//US4       EXEC PGM=MARKIV,REGION=&REGP
//STEPCAT   DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=&&EDA4MF,DISP=(OLD,PASS),UNIT=SYSDA
//M4CORD1   DD   DSN=EDA.D04VCSCP,DISP=OLD
//M4CORD2   DD   DSN=EDA.D04VCST,DISP=OLD
//M4TRAN    DD   DSN=&&EDA4TN,DISP=(OLD,PASS),UNIT=SYSDA
//M4REPO    DD   DSN=&&EDA4RX,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4US04),DISP=OLD,UNIT=3330
//US5       EXEC PGM=MARKIV,REGION=&REGP,COND=(8,LT,US4)
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=&&EDA4MF,DISP=(OLD,PASS),UNIT=SYSDA
//M4NEW     DD   &LTONLY.DSN=&&EDA4NM,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(TRK,(300,20),RLSE)
//M4TRAN    DD   DSN=&&EDA4TN,DISP=(OLD,DELETE),UNIT=SYSDA
//M4SUBF1   DD   &TXTUPDT.DSN=EDA.D04STIN.B&BATCH.V&NVER,
//          DISP=(NEW,CATLG),UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4REPO    DD   DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
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//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4US05),DISP=OLD,UNIT=3330
//US6       EXEC PGM=IGHRC000,REGION=&REGS,COND=(8,LT,US5)
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=EDA.D04LIB(EDA4US06),DISP=OLD,UNIT=3330
//SORTIN    DD   DSN=&&EDA4NM,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT   DD   DSN=EDA.D04MST(+1),DISP=(NEW,CATLG),UNIT=3330,
//          VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//US7       EXEC PGM=IEFBR14,COND=ONLY
//ST        DD   DSN=EDA.D04MST(-1),DISP=(OLD,DELETE),UNIT=3330
//EDA4UC    PEND
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IEBEDIT LISTING                                                PAGE 0001


//EDAPSMUS PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//            REGP=300K,REGS=200K,GENSM='(0)',BATCH=A,NVER=1,DAYS=1,
//            TXTUPDT='DUMMY,',LTONLY=
//US1         EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB     DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN       DD   DSN=EDA.D04LIB(EDA4US01),DISP=OLD,UNIT=3330
//SORTIN      DD   DSN=EDA.D04SJM&GENSM,DISP=OLD,UNIT=3330,
//            VOL=(PRIVATE,RETAIN,,SER=&DISK)
//SORTOUT     DD   DSN=&&EDA4MF,DISP=(NEW,PASS),UNIT=SYSDA,
//            VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
//SYSOUT      DD   SYSOUT=A
//SORTWK01    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//US2         EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB     DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN       DD   DSN=EDA.D04LIB(EDA4US02),DISP=OLD,UNIT=3330
//SORTOUT     DD   DSN=&&EDA4TN,DISP=(NEW,PASS),UNIT=SYSDA,
//            SPACE=(CYL,(1,1)),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
//SYSOUT      DD   SYSOUT=A
//SORTWK01    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03    DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//US4         EXEC PGM=MARKIV,REGION=&REGP
//STEPCAT     DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB     DD   DSN=&MARK4,DISP=SHR
//M4LIB       DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD       DD   DSN=&&EDA4MF,DISP=(OLD,PASS),UNIT=SYSDA
//M4CORD1     DD   DSN=EDA.D04VCSCP,DISP=OLD
//M4CORD2     DD   DSN=EDA.D04VCST,DISP=OLD
//M4TRAN      DD   DSN=&&EDA4TN,DISP=(OLD,PASS),UNIT=SYSDA
//M4REPO      DD   DSN=&&EDA4RX,DISP=(NEW,DELETE),UNIT=SYSDA,
//            SPACE=(CYL,(1,1))
//M4LIST      DD   SYSOUT=A
//M4INPUT     DD   DSN=EDA.D04LIB(EDA4US04),DISP=OLD,UNIT=3330
//US5         EXEC PGM=MARKIV,REGION=&REGP,COND=(8,LT,US4)
//STEPLIB     DD   DSN=&MARK4,DISP=SHR
//M4LIB       DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD       DD   DSN=&&EDA4MF,DISP=(OLD,PASS),UNIT=SYSDA
//M4NEW       DD   &LTONLY.DSN=&&EDA4NM,DISP=(NEW,PASS),UNIT=SYSDA,
//            SPACE=(TRK,(300,20),RLSE)
//M4TRAN      DD   DSN=&&EDA4TN,DISP=(OLD,DELETE),UNIT=SYSDA
//M4SUBF1     DD   &TXTUPDT.DSN=EDA.D04STIN.B&BATCH.V&NVER,
//            DISP=(NEW,CATLG),UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4REPO      DD   DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
//            SPACE=(CYL,(1,1))
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IEBEDIT LISTING                                           PAGE 0002

 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4US05),DISP=OLD,UNIT=3330
 //US6      EXEC PGM=IGHRC000,REGION=&REGS,COND=(8,LT,US5)
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4US06),DISP=OLD,UNIT=3330
 //SORTIN   DD   DSN=&&EDA4NM,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=EDA.D04SJM(+1),DISP=(NEW,CATLG),UNIT=3330,
 //         VOL=SER=&DISK,SPACE=(TRK,(300,20),RLSE)
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK05 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK06 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //US7      EXEC PGM=IEFBR14,COND=ONLY
 //ST       DD   DSN=EDA.D04SJM(+1),DISP=(OLD,DELETE),UNIT=3330
 //EDA4UC   PEND
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IEBEDIT LISTING                                          PAGE 0001

 //EDAPUD   PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //              REGP=300K,REGS=200K,NEWSPAC=50
 //UD1      EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UD01),DISP=OLD,UNIT=3330
 //SORTOUT  DD   DSN=&&EDA4DT,DISP=(NEW,PASS),UNIT=SYSDA,
 //              SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UD2      EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=EDA.D04MDEF,UNIT=3330,DISP=OLD,DCB=DSORG=IS,
 //              VOL=(PRIVATE,RETAIN,,SER=&DISK)
 //M4NEW    DD   DSN=&&EDA4MD,DISP=(NEW,PASS),UNIT=SYSDA,DCB=DSORG=IS,
 //              SPACE=(CYL,&NEWSPAC,,CONTIG)
 //M4TRAN   DD   DSN=&&EDA4DT,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4SUBF1  DD   DSN=&&EDA4OC,DISP=(NEW,PASS),UNIT=SYSDA,
 //              SPACE=(CYL,(1,1),RLSE)
 //M4REPO   DD   DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
 //              SPACE=(CYL,(1,1))
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4UD02),DISP=OLD,UNIT=3330
 //UD3      EXEC PGM=IGHRC000,REGION=&REGS,COND=(28,NE,UD2)
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UD03),DISP=OLD,UNIT=3330
 //SORTIN   DD   DSN=&&EDA4OC,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=&&EDA4D2,DISP=(NEW,PASS),UNIT=SYSDA,
 //              SPACE=(CYL,(1,1),RLSE)
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UD4      EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UD3)
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=&&EDA4MD,DISP=(OLD,DELETE),UNIT=SYSDA,DCB=DSORG=IS
 //M4NEW    DD   DSN=&&EDA4M2,DISP=(NEW,PASS),UNIT=SYSDA,DCB=DSORG=IS,
 //              SPACE=(CYL,&NEWSPAC,,CONTIG)
 //M4TRAN   DD   DSN=&&EDA4D2,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4REPO   DD   DSN=&&EDA4R2,DISP=(NEW,DELETE),UNIT=SYSDA,
 //              SPACE=(CYL,(1,1))
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4UD04),DISP=OLD,UNIT=3330
 //UD5      EXEC PGM=IEBISAM,PARM=COPY,REGION=&REGP,COND=(8,NE,UD2)
 //SYSPRINT DD   SYSOUT=A
 //SYSUT1   DD   DSN=&&EDA4MD,DISP=OLD,UNIT=SYSDA,DCB=DSORG=IS
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IEBEDIT LISTING                                    PAGE 0002

 //SYSUT2    DD   DSN=EDA.D04MDEF,DISP=OLD,UNIT=3330,DCB=DSORG=IS
 //UD6       EXEC PGM=IEBISAM,PARM=COPY,REGION=&REGP,COND=(8,NE,UD4)
 //SYSPRINT DD    SYSOUT=A
 //SYSUT1    DD   DSN=&&EDA4M2,DISP=OLD,UNIT=SYSDA,DCB=DSORG=IS
 //SYSUT2    DD   DSN=EDA.D04MDEF,DISP=OLD,UNIT=3330,DCB=DSORG=IS
 //EDA4BK    PEND
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IEBEDIT LISTING                                           PAGE 0001

 //EDAPSMUD PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //            REGP=300K,REGS=200K,NEWSPAC=30
 //UD1      EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB  DD    DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD    DSN=EDA.D04LIB(EDA4UD01),DISP=OLD,UNIT=3330
 //SORTOUT  DD    DSN=&&EDA4DT,DISP=(NEW,PASS),UNIT=SYSDA,
 //            SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
 //SYSOUT   DD    SYSOUT=A
 //SORTWK01 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UD2      EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB  DD    DSN=&MARK4,DISP=SHR
 //M4LIB    DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD    DSN=EDA.D04SDEF,UNIT=3330,DISP=OLD,DCB=DSORG=IS,
 //            VOL=(PRIVATE,RETAIN,,SER=&DISK)
 //M4NEW    DD    DSN=&&EDA4MD,DISP=(NEW,PASS),UNIT=SYSDA,DCB=DSORG=IS,
 //            SPACE=(CYL,&NEWSPAC,,CONTIG)
 //M4TRAN   DD    DSN=&&EDA4DT,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4SUBF1  DD    DSN=&&EDA4OC,DISP=(NEW,PASS),UNIT=SYSDA,
 //            SPACE=(CYL,(1,1),RLSE)
 //M4REPO   DD    DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
 //            SPACE=(CYL,(1,1))
 //M4LIST   DD    SYSOUT=A
 //M4INPUT  DD    DSN=EDA.D04LIB(EDA4UD02),DISP=OLD,UNIT=3330
 //UD3      EXEC PGM=IGHRC000,REGION=&REGS,COND=(28,NE,UD2)
 //SORTLIB  DD    DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD    DSN=EDA.D04LIB(EDA4UD03),DISP=OLD,UNIT=3330
 //SORTIN   DD    DSN=&&EDA4OC,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD    DSN=&&EDA4D2,DISP=(NEW,PASS),UNIT=SYSDA,
 //            SPACE=(CYL,(1,1),RLSE)
 //SYSOUT   DD    SYSOUT=A
 //SORTWK01 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UD4      EXEC PGM=MARKIV,REGION=&REGP,COND=(0,NE,UD3)
 //STEPLIB  DD    DSN=&MARK4,DISP=SHR
 //M4LIB    DD    DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD    DSN=&&EDA4MD,DISP=(OLD,DELETE),UNIT=SYSDA,DCB=DSORG=IS
 //M4NEW    DD    DSN=&&EDA4M2,DISP=(NEW,PASS),UNIT=SYSDA,DCB=DSORG=IS,
 //            SPACE=(CYL,&NEWSPAC,,CONTIG)
 //M4TRAN   DD    DSN=&&EDA4D2,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4REPO   DD    DSN=&&EDA4R2,DISP=(NEW,DELETE),UNIT=SYSDA,
 //            SPACE=(CYL,(1,1))
 //M4LIST   DD    SYSOUT=A
 //M4INPUT  DD    DSN=EDA.D04LIB(EDA4UD04),DISP=OLD,UNIT=3330
 //UD5      EXEC PGM=IEBISAM,PARM=COPY,REGION=&REGP,COND=(8,NE,UD2)
 //SYSPRINT DD    SYSOUT=A
 //SYSUT1   DD    DSN=&&EDA4MD,DISP=OLD,UNIT=SYSDA,DCB=DSORG=IS
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IEBEDIT LISTING                                         PAGE 0002

 //SYSUT2    DD   DSN=EDA.D04SDEF,DISP=OLD,UNIT=3330,DCB=DSORG=IS
 //UD6       EXEC PGM=IEBISAM,PARM=COPY,REGION=&REGP,COND=(8,NE,UD4)
 //SYSPRINT  DD   SYSOUT=A
 //SYSUT1    DD   DSN=&&EDA4M2,DISP=OLD,UNIT=SYSDA,DCB=DSORG=IS
 //SYSUT2    DD   DSN=EDA.D04SDEF,DISP=OLD.UNIT=3330,DCB=DSORG=IS
 //EDA4BK    PEND
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IEBEDIT LISTING                                             PAGE 0001

 //EDAPLD   PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //         REGP=300K,REGS=200K
 //UD1      EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4UD01),DISP=OLD,UNIT=3330
 //SORTOUT  DD   DSN=&&EDA4DT,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //UD2      EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=EDA.D04MOEF,UNIT=3330,DISP=OLD,DCB=DSORG=IS,
 //         VOL=(PRIVATE,RETAIN,,SER=&DISK)
 //M4SUBF1 DD DUMMY
 //M4TRAN   DD   DSN=&&EDA4DT,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4REPO   DD   DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
 //         SPACE=(CYL,(1,1))
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4UD02),DISP=OLD,UNIT=3330
 //EDA4BK   PEND
```

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IEBEDIT LISTING                                    PAGE 0001

//EDAPSMLD PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//         REGP=300K,REGS=200K
//UD1       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN    DD   DSN=EDA.D04LIB(EDA4UD01),DISP=OLD,UNIT=3330
//SORTOUT  DD   DSN=&&EDA4DT,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(1,1),RLSE),DCB=(RECFM=FB,LRECL=80,BLKSIZE=2480)
//SYSOUT   DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//UD2       EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD    DD   DSN=EDA.D04SDEF,UNIT=3330,DISP=OLD,DCB=DSORG=IS,
//         VOL=(PRIVATE,RETAIN,,SER=&DISK)
//M4TRAN   DD   DSN=&&EDA4DT,DISP=(OLD,DELETE),UNIT=SYSDA
//M4SUBF1 DD DUMMY
//M4REPO   DD   DSN=&&EDA4RO,DISP=(NEW,DELETE),UNIT=SYSDA,
//         SPACE=(CYL,(1,1))
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4UD02),DISP=OLD,UNIT=3330
//EDA4BK   PEND
```

BACK-UP AND RECOVERY PROCEDURES

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IEBEDIT LISTING                                              PAGE 0001

 //EDAPBKUP PROC DATE=,DISK=D03042
 //BK1      EXEC PGM=IDCAMS,REGION=350K
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=OLD
 //CATIN    DD   DSN=EDA.D04CAT,DISP=OLD
 //CATOUT   DD   DSN=EDA.D04BCAT.D&DATE,UNIT=1600BPI,DISP=(NEW,PASS),
 //         LABEL=EXPDT=99365,DCB=(DEN=3,RECFM=VB,LRECL=516,
 //         BLKSIZE=5164)
 //SYSPRINT DD   SYSOUT=A
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4BK01),DISP=OLD,UNIT=3330
 //BK2      EXEC PGM=IEHDASDR
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=OLD
 //SYSPRINT DD   SYSOUT=A
 //DISK     DD   UNIT=3330,DISP=OLD,VOL=(PRIVATE,,,SER=&DISK)
 //TAPE     DD   DSN=EDA.D04BDSK.D&DATE,DISP=(NEW,PASS),UNIT=1600BPI,
 //         LABEL=EXPDT=99365
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4BK02),DISP=OLD,UNIT=3330
 //BK3      EXEC PGM=IEFBR14
 //TAPE     DD   DSN=EDA.D04BDSK.D&DATE,DISP=(OLD,CATLG),UNIT=1600BPI,
 //         LABEL=EXPDT=99365
 //CATOUT   DD   DSN=EDA.D04BCAT.D&DATE,DISP=(OLD,CATLG),UNIT=1600BPI,
 //         LABEL=EXPDT=99365
 //EDA4BK   PEND
```

28 - PROCEDURE LISTINGS

```
IEBEDIT LISTING                                                PAGE 0001

 //EDAPRCAT PROC DATE=
 //RC1      EXEC PGM=IDCAMS,REGION=350K
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=OLD
 //CATIN    DD   DSN=EDA.D04BCAT.D&DATE,UNIT=1600BPI,DISP=OLD,
 //         DCB=DEN=3
 //CATOUT   DD   DSN=EDA.D04CAT,DISP=OLD
 //SYSPRINT DD   SYSOUT=A
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4RCAT),DISP=OLD,UNIT=3330
 //EDA4BK   PEND
```

```
IEBEDIT LISTING                                               PAGE 0001

 //EDAPRDSK PROC DATE=,DISK=D03042
 //DK2      EXEC PGM=IEHDASDR
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=OLD
 //SYSPRINT DD   SYSOUT=A
 //DISK     DD   UNIT=3330,DISP=OLD,VOL=(PRIVATE,,,SER=&DISK)
 //TAPE     DD   DSN=EDA.D04BDSK.D&DATE,DISP=OLD,UNIT=1600BPI
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4RDSK),DISP=OLD,UNIT=3330
 //EDA4BK   PEND
```

```
IEBEDIT LISTING                                              PAGE 0001

//EDAPTBLD PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//          REGP=200K
//TB1       EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4TB01),DISP=OLD,UNIT=3330,
//          VOL=(PRIVATE,,,SER=&DISK)
//         DD   DSN=EDA.D04LIB(EDA4STID),DISP=OLD,UNIT=3330
//EDA4BK   PEND
```

REPORT PROCEDURES

```
IEBEDIT LISTING                                                PAGE 0001

//EDAPRC    PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//          REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=03
//MP        EXEC PGM=IEFBR14
//DD1       DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
//RC1       EXEC PGM=MARKIV,REGION=&REGP
//STEPCAT   DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=EDA.D04VCST,DISP=OLD
//M4REPO    DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4SORT    DD   DSN=&&EDA4S1,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4RC01),DISP=OLD,UNIT=3330
//RC2       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=&&EDA4S1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTIN    DD   DSN=&&EDA4R1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT   DD   DSN=&&EDA4R2,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//RC3       EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4REPI    DD   DSN=&&EDA4R2,DISP=OLD,UNIT=SYSDA
//M4LIST    DD   DSN=XEROX.EDA&#COPIES.0&UNQ.1,DISP=(NEW,&DELAYPT),
//          UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//EDA4RP    PEND
```

34 - PROCEDURE LISTINGS

```
IEBEDIT LISTING                                              PAGE 0001

//EDAPRT   PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//         REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=03
//RT1      EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD    DD   DSN=EDA.D04TH(0),DISP=OLD,UNIT=3330,
//         VOL=(PRIVATE,RETAIN,,SER=&DISK)
//M4SUBF1  DD   DSN=&&EDA4TS,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(9,2))
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4RT01),DISP=OLD,UNIT=3330
//RT2      EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN    DD   DSN=EDA.D04LIB(EDA4RT02),DISP=OLD,UNIT=3330
//SORTIN   DD   DSN=&&EDA4TS,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT  DD   DSN=&&EDA4TP,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(9,2))
//SYSOUT   DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK05 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK06 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK07 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//RT3      EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD    DD   DSN=&&EDA4TP,DISP=(OLD,DELETE),UNIT=SYSDA
//M4REPO   DD   DSN=&&EDA4TL,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(9,2))
//M4SORT   DD   DSN=&&EDA4ST,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4RT03),DISP=OLD,UNIT=3330
//RT4      EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4REPI   DD   DSN=&&EDA4TL.DISP=OLD.UNIT=SYSDA
//M4LIST   DD   DSN=XEROX.EDA&#COPIES.0&UNQ.2,DISP=(NEW,&DELAYPT),
//         UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//EDA4RG   PEND
```

```
IEBEDIT LISTING                                              PAGE 0001

//EDAPRP    PROC MARK4='HEW.R5.MARK4',M4LIB=HE#OEMKF,DISK=D03042,
//          REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=03
//RP1       EXEC PGM=MARKIV,REGION=&REGP
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD     DD   DSN=EDA.D04TH(0),DISP=OLD,UNIT=3330,
//          VOL=(PRIVATE,RETAIN,,SER=&DISK)
//M4REPO    DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//M4SORT    DD   DSN=&&EDA4S1,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4RP01),DISP=OLD,UNIT=3330
//RP2       EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN     DD   DSN=&&EDA4S1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTIN    DD   DSN=&&EDA4R1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT   DD   DSN=&&EDA4R2,DISP=(NEW,PASS),UNIT=SYSDA,
//          SPACE=(CYL,(1,1))
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06  DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//RP3       EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4REPI    DD   DSN=&&EDA4R2,DISP=OLD,UNIT=SYSDA
//M4LIST    DD   DSN=XEROX.EDA&#COPIES.0&UNQ.3,DISP=(NEW,&DELAYPT),
//          UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//EDA4RP    PEND
```

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                                                          PAGE 0001
IEBEDIT LISTING

//EDAPRD   PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//         REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01
//MP       EXEC PGM=IEFBR14
//DD1      DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
//RD1      EXEC PGM=MARKIV,REGION=&REGP
//STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD    DD   DSN=EDA.D04LIB(EDA4MOLD),DISP=SHR,UNIT=3330
//M4CORD1  DD   DSN=EDA.D04VCST,DISP=OLD
//M4CORD2  DD   DSN=EDA.D04MST(0),DISP=OLD,UNIT=3330
//M4REPO   DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(9,4))
//M4SORT   DD   DSN=&&EDA4S1,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4RD01),DISP=OLD,UNIT=3330
//RD2      EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN    DD   DSN=&&EDA4S1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTIN   DD   DSN=&&EDA4R1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT  DD   DSN=&&EDA4R2,DISP=(NEW,PASS),UNIT=SYSDA,
//         SPACE=(CYL,(9,9))
//SYSOUT   DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,5,,CONTIG)
//SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//RD3      EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4REPI   DD   DSN=&&EDA4R2,DISP=OLD,UNIT=SYSDA
//M4LIST   DD   DSN=XEROX.EDA&#COPIES.0&UNQ.4,DISP=(NEW,&DELAYPT),
//         UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//EDA4RP   PEND
```

```
IEBEDIT LISTING                                                PAGE 0001

//EDAPSMRD PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
//             REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01
//MP       EXEC PGM=IEFBR14
//DD1      DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
//RD1      EXEC PGM=MARKIV,REGION=&REGP
//STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
//M4OLD    DD   DSN=EDA.D04LIB(EDA4MOLD),DISP=SHR,UNIT=3330
//M4CORD1  DD   DSN=EDA.D04VCST,DISP=OLD
//M4CORD2  DD   DSN=EDA.D04SJM(0),DISP=OLD,UNIT=3330
//M4REPO   DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
//             SPACE=(CYL,(9,9))
//M4SORT   DD   DSN=&&EDA4S1,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
//M4LIST   DD   SYSOUT=A
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4RD01),DISP=OLD,UNIT=3330
//RD2      EXEC PGM=IGHRC000,REGION=&REGS
//SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
//SYSIN    DD   DSN=&&EDA4S1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTIN   DD   DSN=&&EDA4[illegible]1,DISP=(OLD,DELETE),UNIT=SYSDA
//SORTOUT  DD   DSN=&&EDA4R2,DISP=(NEW,PASS),UNIT=SYSDA,
//             SPACE=(CYL,(9,9))
//SYSOUT   DD   SYSOUT=A
//SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK05 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//SORTWK06 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
//RD3      EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB  DD   DSN=&MARK4,DISP=SHR
//M4REPI   DD   DSN=&&EDA4R2,DISP=OLD,UNIT=SYSDA
//M4LIST   DD   DSN=XEROX.EDA&#COPIES.0&UNQ.7,DISP=(NEW,&DELAYPT),
//             UNIT=1600BPI,LABEL=RETPD=&DAYS
//M4INPUT  DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
//EDA4RP   PEND
```

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IEBEDIT LISTING                                         PAGE 0001

 //EDAPRG   PROC MARK4='HEW.R5.MARK4',M4LIB=HE*OEMKF,DISK=D03042,
 //         REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01
 //MP       EXEC PGM=IEFBR14
 //DD1      DD   VOL=(PRIVATE.RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
 //RG1      EXEC PGM=MARKIV,REGION=&REGP,TIME=15
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=EDA.D04LIB(EDA4MOLD),UNIT=3330.DISP=OLD
 //M4CORD1  DD   DSN=EDA.D04VCST,DISP=OLD
 //M4CORD2  DD   DSN=EDA.D04MST(0).DISP=OLD.UNIT=3330
 //M4CORD3  DD   DSN=EDA.D04MDEF,DISP=OLD,UNIT=3330,DCB=DSORG=IS
 //M4SUBF1  DD   DSN=&&EDA4GS,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4RG01).DISP=OLD,UNIT=3330
 //RG2      EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB  DD   DSN=SYS1.SORTLIB.DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4RG02),DISP=OLD,UNIT=3330
 //SORTIN   DD   DSN=&&EDA4GS.DISP=(OLD.DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=&&EDA4GP,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA.SPACE=(CYL.6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
 //SORTWK05 DD   UNIT=SYSDA.SPACE=(CYL.6,,CONTIG)
 //SORTWK06 DD   UNIT=SYSDA.SPACE=(CYL,6,,CONTIG)
 //SORTWK07 DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
 //RG3      EXEC PGM=MARKIV,REGION=&REGP.TIME=12
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=&&EDA4GP.DISP=(OLD.DELETE),UNIT=SYSDA
 //M4REPO   DD   DSN=&&EDA4GL,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //M4SORT   DD   DSN=&&EDA4ST,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4RG03),DISP=OLD,UNIT=3330
 //RG4      EXEC PGM=MARKIV,REGION=&REGS
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4REPI   DD   DSN=&&EDA4GL,DISP=OLD,UNIT=SYSDA
 //M4LIST   DD   DSN=XEROX.EDA&#COPIES.0&UNQ.5,DISP=(NEW,&DELAYPT),
 //         UNIT=1600BPI.LABEL=RETPD=&DAYS
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD.UNIT=3330
 //EDA4RG   PEND
```

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IEBEDIT LISTING                                              PAGE 0001

 //EDAPSMRG PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //         REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01
 //MP       EXEC PGM=IEFBR14
 //DD1      DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
 //RG1      EXEC PGM=MARKIV,REGION=&REGP
 //STEPCAT  DD   DSN=EDA.D04CAT,DISP=SHR
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=EDA.D04LIB(EDA4MOLD),UNIT=3330,DISP=OLD
 //M4CORD1  DD   DSN=EDA.D04VCST,DISP=OLD
 //M4CORD2  DD   DSN=EDA.D04SJM(0),DISP=OLD,UNIT=3330
 //M4CORD3  DD   DSN=EDA.D04SDEF,DISP=OLD,UNIT=3330,DCB=DSORG=IS
 //M4SUBF1  DD   DSN=&&EDA4GS,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4RG01),DISP=OLD,UNIT=3330
 //RG2      EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB  DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN    DD   DSN=EDA.D04LIB(EDA4RG02),DISP=OLD,UNIT=3330
 //SORTIN   DD   DSN=&&EDA4GS,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT  DD   DSN=&&EDA4GP,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //SYSOUT   DD   SYSOUT=A
 //SORTWK01 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK04 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK05 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK06 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK07 DD   UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //RG3      EXEC PGM=MARKIV,REGION=&REGP
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4LIB    DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD    DD   DSN=&&EDA4GP,DISP=(OLD,DELETE),UNIT=SYSDA
 //M4REPO   DD   DSN=&&EDA4GL,DISP=(NEW,PASS),UNIT=SYSDA,
 //         SPACE=(CYL,(9,2))
 //M4SORT   DD   DSN=&&EDA4ST,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
 //M4LIST   DD   SYSOUT=A
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4RG03),DISP=OLD,UNIT=3330
 //RG4      EXEC PGM=MARKIV,REGION=&REGS
 //STEPLIB  DD   DSN=&MARK4,DISP=SHR
 //M4REPI   DD   DSN=&&EDA4GL,DISP=OLD,UNIT=SYSDA
 //M4LIST   DD   DSN=XEROX.EDA&#COPIES.0&UNQ.8,DISP=(NEW,&DELAYPT),
 //         UNIT=1600BPI,LABEL=RETPD=&DAYS
 //M4INPUT  DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
 //EDA4RG   PEND
```

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IEBEDIT LISTING                                               PAGE 0001

 //EDAPRI    PROC MARK4='HEW.RS.MARK4',M4LIB=HEWOEMKF,DISK=D03042,
 //          REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01,
 //          THES='DUMMY,'
 //MP        EXEC PGM=IEFBR14
 //DD1       DD   VOL=(PRIVATE,RETAIN,,SER=&DISK),UNIT=3330,DISP=SHR
 //RI1       EXEC PGM=MARKIV,REGION=&REGP,TIME=7
 //STEPCAT   DD   DSN=EDA.D04CAT,DISP=SHR
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4LIB     DD   DSN=&M4LIB,UNIT=3330,DISP=SHR
 //M4OLD     DD   DSN=EDA.D04LIB(EDA4MOLD),DISP=SHR,UNIT=3330
 //M4CORD1   DD   DSN=EDA.D04VCST,DISP=OLD
 //M4CORD2   DD   DSN=EDA.D04MST(0),DISP=OLD,UNIT=3330
 //M4CORD3   DD   &THES.DSN=EDA.D04MTH(0),DISP=OLD,UNIT=3330
 //M4REPO    DD   DSN=&&EDA4R1,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(9,9))
 //M4SORT    DD   DSN=&&EDA4S1,DISP=(NEW,PASS),UNIT=SYSDA,SPACE=(TRK,1)
 //M4LIST    DD   SYSOUT=A
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4RI01),DISP=OLD,UNIT=3330
 //RI2       EXEC PGM=IGHRC000,REGION=&REGS
 //SORTLIB   DD   DSN=SYS1.SORTLIB,DISP=SHR
 //SYSIN     DD   DSN=&&EDA4S1,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTIN    DD   DSN=&&EDA4R1,DISP=(OLD,DELETE),UNIT=SYSDA
 //SORTOUT   DD   DSN=&&EDA4R2,DISP=(NEW,PASS),UNIT=SYSDA,
 //          SPACE=(CYL,(9,9))
 //SYSOUT    DD   SYSOUT=A
 //SORTWK01 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK02 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK03 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK04 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK05 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //SORTWK06 DD    UNIT=SYSDA,SPACE=(CYL,6,,CONTIG)
 //RI3       EXEC PGM=MARKIV,REGION=&REGS
 //STEPLIB   DD   DSN=&MARK4,DISP=SHR
 //M4REPI    DD   DSN=&&EDA4R2,DISP=OLD,UNIT=SYSDA
 //M4LIST    DD   DSN=XEROX.EDA&#COPIES.0&UNQ.6,DISP=(NEW,&DELAYPT),
 //          UNIT=1600BPI,LABEL=RETPD=&DAYS
 //M4INPUT   DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD,UNIT=3330
 //EDA4RP    PEND
```

```
IEBEDIT LISTING                                              PAGE 0001


//EDAPSMRI PROC MARK4='HEW.R5.MARK4',M4LIB=HEWOEMKF.DISK=D03042,
//          REGP=300K,REGS=200K,DAYS=5,DELAYPT=CATLG,UNQ=2,#COPIES=01,
//          THES='DUMMY,'
//MP        EXEC PGM=IEFBR14
//DD1       DD   VOL=(PRIVATE.RETAIN,,SER=&DISK).UNIT=3330.DISP=SHR
//RI1       EXEC PGM=MARKIV.REGION=&REGP,TIME=4
//STEPCAT   DD   DSN=EDA.D04CAT.DISP=SHR
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4LIB     DD   DSN=&M4LIB,UNIT=3330.DISP=SHR
//M4OLD     DD   DSN=EDA.D04LIB(EDA4MOLD),DISP=SHR,UNIT=3330
//M4CORD1   DD   DSN=EDA.D04VCST.DISP=OLD
//M4CORD2   DD   DSN=EDA.D04SJM(0),DISP=OLD.UNIT=3330
//M4CORD3   DD   &THES.DSN=EDA.D04MTH(0),DISP=OLD.UNIT=3330
//M4REPO    DD   DSN=&&EDA4R1.DISP=(NEW.PASS),UNIT=SYSDA,
//          SPACE=(CYL,(9.9))
//M4SORT    DD   DSN=&&EDA4S1.DISP=(NEW.PASS),UNIT=SYSDA.SPACE=(TRK.1)
//M4LIST    DD   SYSOUT=A
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4RI01),DISP=OLD.UNIT=3330
//RI2       EXEC PGM=IGHRC000.REGION=&REGS
//SORTLIB   DD   DSN=SYS1.SORTLIB.DISP=SHR
//SYSIN     DD   DSN=&&EDA4S1.DISP=(OLD.DELETE).UNIT=SYSDA
//SORTIN    DD   DSN=&&EDA4R1.DISP=(OLD.DELETE).UNIT=SYSDA
//SORTOUT   DD   DSN=&&EDA4R2.DISP=(NEW.PASS).UNIT=SYSDA,
//          SPACE=(CYL,(9.9))
//SYSOUT    DD   SYSOUT=A
//SORTWK01  DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK02  DD   UNIT=SYSDA.SPACE=(CYL.6,,CONTIG)
//SORTWK03  DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK04  DD   UNIT=SYSDA.SPACE=(CYL.6,,CONTIG)
//SORTWK05  DD   UNIT=SYSDA,SPACE=(CYL.6,,CONTIG)
//SORTWK06  DD   UNIT=SYSDA.SPACE=(CYL.6,,CONTIG)
//RI3       EXEC PGM=MARKIV,REGION=&REGS
//STEPLIB   DD   DSN=&MARK4,DISP=SHR
//M4REPI    DD   DSN=&&EDA4R2,DISP=OLD.UNIT=SYSDA
//M4LIST    DD   DSN=XEROX.EDA&#COPIES.0&UNQ.9,DISP=(NEW,&DELAYPT),
//          UNIT=1600BPI.LABEL=RETPD=&DAYS
//M4INPUT   DD   DSN=EDA.D04LIB(EDA4M4RP),DISP=OLD.UNIT=3330
//EDA4RP    PEND
//EDASJ   EXEC PROC=EDAPSMRI
```

APPENDIX E: MARK IV FILE NAMES

Mark IV File Name	File	Description	Procedure(s) Using this Name
EDA4SQCS	Classification Schedules	Generation dataset. Used to update classification schedules.	EDAPUC
EDA4TRNC	Classification Schedules Update Transactions	Temporary dataset. Used to access transaction file that is sequenced by term.	EDAPUC
EDA4VCST	Classification Schedules	VSAM cluster. Used for direct access to classification schedules through term.	EDAPUT EDAPRC EDAPRD EDAPRG EDAPRI
EDA4VCSC	Classification Schedules	VSAM alternate index. Used for direct access to classification schedules through code.	EDAPUC EDAPUS
EDA4MTH	Thesaurus	Generation dataset. Used to access thesaurus.	EDAPUC EDAPUT EDAPRT EDAPRP EDAPRI
EDA4TRNT	Thesaurus Update Transactions	Temporary dataset. Used to access transaction file that is sequenced by code.	EDAPUT EDAPUC
EDA4TRL	Thesaurus Report Lines	Temporary dataset. Used to modify thesaurus report lines prior to printing.	EDAPRT
EDA4STIN	Source Term Entry Transactions	Semi-permanent dataset. Used to edit source term add transactions.	EDAPES EDAPIS
EDA4MSTI	Source Term File	Generation dataset. Used to access source term file by term.	EDAPIS EDAPRD EDAPRG EDAPRI
EDA4MSTR	Source Term File	Generation dataset. Used to access source term file by term identifier.	EDAPUS

2 - MARK IV FILE NAMES

Mark IV File Name	File	Description	Procedure(s) Using this Name
EDA4TRNS	Source Term Update Transactions	Temporary dataset. Used to access transaction file that is sequenced by term identifier.	EDAPUS
EDA4MSTA	Source Term File	Generation dataset. Used to access source term file in term order by a short numeric key.	EDAPUC
EDA4MDEF	Definition File	ISAM dataset. Used to access definition file.	EDAPUD EDAPRG
EDA4TRNE	Definition Update Transactions	Temporary dataset. Used to access transaction file that is sequenced by occurrence identifier.	EDAPUD
EDA4GLSS	Definition Report Records	Temporary dataset. Used to reorganize glossary information for reporting.	EDAPRG

APPENDIX F: TRANSACTION INDEX

Transaction Group Name	Master File Definition Name	Procedure Step(s) Using this Transaction Group
EDA4CS-U	EDA4SQCS	EDAPUC.UC3 EDAPUC.UC6
EDA4GT EDA4GTC EDA4TCCT	EDA4MTH	EDAPUC.UC5
EDA4TCAT EDA4TCDT EDA4TCST	EDA4MTH	EDAPUC.UC5 EDAPUC.UC15
EDA4GTAA EDA4GTDD	EDA4MTH	EDAPUC.UC15
EDA4T-UF EDA4T-RT EDA4T-BT EDA4T-NT EDA4T-S1 EDA4T-S2 EDA4T-S3	EDA4MTH	EDAPUC.UC15 EDAPUT.UT4 EDAPUT.UT6
EDA4T-BR EDA4T-NR EDA4T-DF EDA4T-DR EDA4T-DN EDA4T-DB EDA4T-DS EDA4T-LE EDA4T-UN EDA4T-UR EDA4T-UA EDA4T-SE EDA4T-DL EDA4T-MU EDA4T-MA EDA4T-MS	EDA4MTH	EDA4UT.UT4 EDA4UT.UT6
EDA4-STE	EDA4STIN	EDAPES.ES2
EDA4-STI	EDA4MSTI	EDAPIS.IS2 EDAPSMIS.IS2

2 - TRANSACTION INDEX

Transaction Group Name	Master File Definition Name	Procedure Step(s) Using this Transaction Group
EDA4-STU	EDA4MSTR	EDAPUS.US4 EDAPSMUS.US4 EDAPUS.US5 EDAPSMUS.US5
EDA4DEFU	EDA4MDEF	EDAPUD.UD2 EDAPSMUD.UD2

APPENDIX G

FILE DEFINITIONS/TRANSACTION DEFINITIONS

FILE AND TRANSACTION DEFINITIONS
RELATED TO
CLASSIFICATION SCHEDULES

```
                                        DETAILED GLOSSARY BY NAME FOR                               MAR 31, 1979
                                          FILE DEFINITION - EDA4SQCS                                PAGE 1

FILE IDENTIFICATION =                                                   RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                          RECORD SIZE = 60
NUMBER OF FIELDS IN FILE = 3                                            BLOCK SIZE = 6000


                                        ********************************
                                        *     SEGMENT  1, LEVEL 1      *
                                        ********************************

SEGMENT OCCURS N TIMES = 1                                      KEY FIELD 1 = TERM      TYPE = C   LENGTH = 40
SEGMENT SIZE = 60
NUMBER OF FIELDS IN SEGMENT = 3

-----------------------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD   FIELD  FIELD   DEC     CNT FIELD EDIT CODES      EDIT    OUTPUT   LINE          COLUMN
NAME    TYPE   LOCATION LENGTH RNDING PLACES   FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH     NO   ***     HEADING     ***
-----------------------------------------------------------------------------------------------------------------------

CODE     C         1      20                                              20       20

RECORD   C         1      60                                              60       60

TERM     C        21      40                                              40       40
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                        TRANSACTION GROUP - EDA4CS-U                                   PAGE 1

MASTER FILE NAME = EDA4SQCS                                                  RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 5                                           RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 8                                               BLOCK SIZE = 2480


                                    ***************************************
                                    *   1  OF  5  IDENTIFIERS IN GROUP    *
                                    ***************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (CA)
*CA      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------
MASTER  ..........TRANSACTION DATA..........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                    MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES      CODE    NUMBER          VALUE                      VALUE
------------------------------------------------------------------------------------------------------------------

TERM      C          26       40                  C        1

CODE      C           3       20                  P        1        EDIT = VIIIIIIIII;IIIIIIIII
```

```
                                                GLOSSARY BY LEVEL NUMBER FOR                                         MAR 31, 1979
                                                TRANSACTION GROUP - EDA4CS-U                                         PAGE 2


                                           ****************************************
                                           *   2  OF  5  IDENTIFIERS IN GROUP     *
                                           ****************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (CS)              IDENTIFIER TWO = (    )
*CS      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1            IDENTIFIER LOCATION = 3
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2              IDENTIFIER LENGTH = 4
                                                        IDENTIFIED IF EQUAL                IDENTIFIED IF NOT EQUAL

-----------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD   DECIMAL    ACTION   LEVEL             MINIMUM                          MAXIMUM
FIELD   TYPE    LOCATION   LENGTH   PLACES      CODE    NUMBER             VALUE                            VALUE
-----------------------------------------------------------------------------------------------------------------------------

TERM      C          26       40                  C         1

CODE      C           3       20                  P         1          EDIT = 9IIIIIIIIIIIIIIIIIII
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                 MAR 31, 1979
                                   TRANSACTION GROUP - EDA4CS-U                                 PAGE 3


                                ***************************************
                                *  3  OF  5  IDENTIFIERS IN GROUP     *
                                ***************************************

**********     ACTIONS IN IDENTIFIER = 1                   IDENTIFIER ONE = (    )           IDENTIFIER TWO = (CS)
*   CS   *     DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 3           IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 4             IDENTIFIER LENGTH = 2
                                                           IDENTIFIED IF EQUAL               IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD      FIELD     FIELD    DECIMAL     ACTION    LEVEL            MINIMUM                    MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES       CODE     NUMBER            VALUE                      VALUE
---------------------------------------------------------------------------------------------------------------------

TERM      C          26        40                    D         1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                        TRANSACTION GROUP - EDA4CS-U                                   PAGE 4


                                   ************************************
                                   *   4  OF  5  IDENTIFIERS IN GROUP  *
                                   ************************************

**********    ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (CD)
*CD      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

----------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                        MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER            VALUE                          VALUE
----------------------------------------------------------------------------------------------------------------

TERM      C          26         40                  D        1
```

```
                                          GLOSSARY BY LEVEL NUMBER FOR                                    MAR 31, 1979
                                          TRANSACTION GROUP - EDA4CS-U                                    PAGE 5


                                   ***************************************
                                   *   5  OF  5  IDENTIFIERS IN GROUP    *
                                   ***************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (CC)
*CC      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD   DECIMAL   ACTION   LEVEL          MINIMUM                          MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                            VALUE
---------------------------------------------------------------------------------------------------------------------

TERM       C          26      40                  M        1

CODE       C           3      20                  P        1        EDIT = 9IIIIIIIIIIIIIIIIIII
```

```
                         DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                           FILE DEFINITION - EDA4TRNC                                       PAGE 1

FILE IDENTIFICATION =                                                RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                       RECORD SIZE = 80
NUMBER OF FIELDS IN FILE = 6                                         BLOCK SIZE = 2480


                          ******************************
                          *     SEGMENT  1, LEVEL 1    *
                          ******************************

SEGMENT OCCURS N TIMES = 1                                KEY FIELD 1 = TERM       TYPE = C   LENGTH = 40
SEGMENT SIZE = 80
NUMBER OF FIELDS IN SEGMENT = 6

----------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES    EDIT    OUTPUT   LINE       COLUMN
NAME      TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH  WIDTH    NO   ***   HEADING    ***
----------------------------------------------------------------------------------------------------------------------

TRAN-ID   C             1       2                                               2       2

TRAN      C             1      80                                              80      80

CODE      C             3      20                                              20      20

OVRFLW-C  C            23       3                                               3       3

TERM      C            26      40                                              40      40

OVRFLW-T  C            66      15                                              15      15
```

```
                          DETAILED GLOSSARY BY LOCATION FOR                                    MAR 31, 1979
                             FILE DEFINITION - EDA4VCST                                        PAGE 1

FILE IDENTIFICATION =                                                   RECORD FORMAT = KEY SEQUENCED VSAM
NUMBER OF SEGMENTS IN FILE = 1                                          RECORD SIZE = 4096
NUMBER OF FIELDS IN FILE = 2                                            BLOCK SIZE = 4096


                          ********************************
                          *     SEGMENT  1, LEVEL 1      *
                          ********************************

SEGMENT OCCURS N TIMES = 1                                     KEY FIELD 1 = TERM       TYPE = C   LENGTH = 40
SEGMENT SIZE = 60
NUMBER OF FIELDS IN SEGMENT = 2

-----------------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD    FIELD  FIELD  DEC    CNT FIELD EDIT CODES     EDIT   OUTPUT  LINE         COLUMN
NAME    TYPE   LOCATION LENGTH RNDING PLACES  FOR SGMT  ( ) ( ) ( )   LENGTH  WIDTH    NO   ***    HEADING     ***
-----------------------------------------------------------------------------------------------------------------

CODE     C         1      20                                            20      20

TERM     C        21      40                                            40      40
```

```
                              DETAILED GLOSSARY BY LOCATION FOR                             MAR 31, 1979
                                FILE DEFINITION - EDA4VCSC                                  PAGE 1

FILE IDENTIFICATION =                                                     RECORD FORMAT = KEY SEQUENCED VSAM
NUMBER OF SEGMENTS IN FILE = 1                                            RECORD SIZE = 4096
NUMBER OF FIELDS IN FILE = 2                                              BLOCK SIZE = 4096


                              ********************************
                              *      SEGMENT  1, LEVEL 1     *
                              ********************************

SEGMENT OCCURS N TIMES = 1                                  KEY FIELD 1 = [illegible]DE      TYPE = C   LENGTH = 20
SEGMENT SIZE = 60
NUMBER OF FIELDS IN SEGMENT = 2

------------------------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES    EDIT    OUTPUT   LINE         COLUMN
NAME    TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH  WIDTH    NO    ***    HEADING    ***
------------------------------------------------------------------------------------------------------------------------

CODE     C          1       20                                              20      20

TERM     C         21       40                                              40      40
```

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File and Transaction Definitions

Related to

THESAURUS

```
                       DETAILED GLOSSARY BY LOCATION FOR                              MAR 31, 1979
                         FILE DEFINITION - EDA4MTH                                    PAGE 1

FILE IDENTIFICATION =                                             RECORD FORMAT = VARIABLE BLOCKED
NUMBER OF SEGMENTS IN FILE = 6                                    RECORD SIZE = 12995
NUMBER OF FIELDS IN FILE = 17                                     BLOCK SIZE = 13003


                          ********************************
                          *     SEGMENT  1, LEVEL 1      *
                          *   SEGMENT NAME = BASE        *
                          ********************************

SEGMENT OCCURS N TIMES = 1                                 KEY FIELD 1 = CODE       TYPE = C   LENGTH = 20
SEGMENT SIZE = 235
NUMBER OF FIELDS IN SEGMENT = 11

------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD    DEC    CNT FIELD  EDIT CODES    EDIT    OUTPUT   LINE        COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH    NO   ***   HEADING    ***
------------------------------------------------------------------------------------------------------------------

TERM      C          1      40                                              40       40

CODE      C         41      20                                              20       20

SCOPE-NT  C         61     165                                             165      165

SCOPE-1   C         61      55                                              55       55

SCOPE-2   C        116      55                                              55       55

SCOPE-3   C        171      55                                              55       55

UF-COUNT  F        226       2                       2                       7        7

RT-COUNT  F        228       2                       3                       7        7

BT-COUNT  F        230       2                       4                       7        7

NT-COUNT  F        232       2                       5                       7        7

LEREFCNT  F        234       2                       6                       7        7
```

```
                              DETAILED GLOSSARY BY LOCATION FOR                                   MAR 31, 1979
                                 FILE DEFINITION - EDA4MTH                                        PAGE 2


                               ********************************
                               *       SEGMENT  2, LEVEL 2    *
                               *    SEGMENT NAME = UF-SEG     *
                               ********************************

COUNT FIELD FOR SEGMENT = UF-COUNT                                 KEY FIELD 1 = UF-REF      TYPE = C   LENGTH = 40
SEGMENT SIZE = 40
NUMBER OF FIELDS IN SEGMENT = 1

----------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD    FIELD    DEC     CNT FIELD  EDIT CODES      EDIT     OUTPUT   LINE          COLUMN
NAME     TYPE    LOCATION  LENGTH   RNDING   PLACES  FOR SGMT   ( ) ( ) ( )     LENGTH   WIDTH     NO    ***    HEADING     **
----------------------------------------------------------------------------------------------------------------------

UF-REF    C           1      40                                                   40       40
```

```
                                   ******************************
                                   *      SEGMENT  3, LEVEL 2   *
                                   *    SEGMENT NAME = RT-SEG   *
                                   ******************************

COUNT FIELD FOR SEGMENT = RT-COUNT                      KEY FIELD 1 = RT-REF      TYPE = C   LENGTH = 40
SEGMENT SIZE = 40
NUMBER OF FIELDS IN SEGMENT = 1

-----------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD    FIELD  FIELD   DEC    CNT FIELD  EDIT CODES     EDIT    OUTPUT  LINE       COLUMN
NAME    TYPE   LOCATION  LENGTH RNDING  PLACES FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH   NO   ***   HEADING   ***
-----------------------------------------------------------------------------------------------------------

RT-REF   C         1       40                                             40      40
```

```
                            DETAILED GLOSSARY BY LOCATION FOR                                         MAR 31, 1979
                              FILE DEFINITION - EDA4MTH                                               PAGE 4

                            ******************************
                            *      SEGMENT  4, LEVEL 2   *
                            *   SEGMENT NAME = BT-SEG    *
                            ******************************

COUNT FIELD FOR SEGMENT = BT-COUNT                                    KEY FIELD 1 = BT-REF     TYPE = C   LENGTH = 40
SEGMENT SIZE = 40
NUMBER OF FIELDS IN SEGMENT = 1

--------------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES      EDIT    OUTPUT   LINE            COLUMN
NAME     TYPE   LOCATION   LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )     LENGTH  WIDTH     NO    ***      HEADING     ***
--------------------------------------------------------------------------------------------------------------------------

BT-REF    C         1        40                                                40       40
```

```
                         ********************************
                         *      SEGMENT  5, LEVEL 2     *
                         *   SEGMENT NAME = NT-SEG      *
                         ********************************

COUNT FIELD FOR SEGMENT = NT-COUNT                          KEY FIELD 1 = NT-REF      TYPE = C   LENGTH = 40
SEGMENT SIZE = 40
NUMBER OF FIELDS IN SEGMENT = 1

-----------------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES    EDIT    OUTPUT   LINE        COLUMN
NAME    TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH  WIDTH     NO   ***   HEADING     ***
-----------------------------------------------------------------------------------------------------------------

NT-REF   C          1       40                                              40       40
```

```
                         DETAILED GLOSSARY BY LOCATION FOR                              MAR 31, 1979
                           FILE DEFINITION - EDA4MTH                                    PAGE 6

                        ******************************
                        *     SEGMENT  6, LEVEL 2    *
                        *   SEGMENT NAME = LE-SEG    *
                        ******************************

COUNT FIELD FOR SEGMENT = LEREFCNT                             KEY FIELD 1 = LE-REF     TYPE = C   LENGTH = 40
SEGMENT SIZE = 41
NUMBER OF FIELDS IN SEGMENT = 2

--------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD  FIELD  DEC    CNT FIELD EDIT CODES    EDIT   OUTPUT  LINE        COLUMN
NAME     TYPE   LOCATION  LENGTH RNDING PLACES FOR SGMT  ( ) ( ) ( )   LENGTH WIDTH    NO  ***    HEADING      ***
--------------------------------------------------------------------------------------------------------------

LEREFTYP  C         1       1                                          1       1

LE-REF    C         2      40                                         40      40
```

```
                                    GLOSSARY BY LEVEL NUMBER FOR                                         MAR 31, 1979
                                    TRANSACTION GROUP - EDA4GT                                           PAGE 1

MASTER FILE NAME = EDA4MTH                                                     RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                             RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                                 BLOCK SIZE = 2480


                                 ************************************
                                 *  1  OF  1  IDENTIFIERS IN GROUP   *
                                 ************************************

**********     ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (  )
*        *     DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER  ..........TRANSACTION DATA..........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                     MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES      CODE    NUMBER          VALUE                       VALUE
--------------------------------------------------------------------------------------------------------------------

CODE     C          3         20                  M        1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                       MAR 31, 1979
                                        TRANSACTION GROUP - EDA4GTC                                        PAGE 1

MASTER FILE NAME = EDA4MTH                                                     RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                             RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                                 BLOCK SIZE = 2480


                                     *************************************
                                     *   1  OF  1  IDENTIFIERS IN GROUP  *
                                     *************************************

**********     ACTIONS IN IDENTIFIER = 1              IDENTIFIER ONE = (C )
*C       *     DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 2
                                                      IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD    FIELD     FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                        MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                          VALUE
-------------------------------------------------------------------------------------------------------------------------

CODE      C          3       20                  M        1
```

24 - DEFINITIONS

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                       MAR 31, 1979
                                        TRANSACTION GROUP - EDA4TCCT                                       PAGE 1

MASTER FILE NAME = EDA4MTH                                                         RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                 RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                                     BLOCK SIZE = 2480


                                     ****************************************
                                     *   1  OF  1  IDENTIFIERS IN GROUP    *
                                     ****************************************

**********     ACTIONS IN IDENTIFIER = 1                      IDENTIFIER ONE = (CC)
*CC      *     DEFAULT CREATE = NO                            IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                            IDENTIFIER LENGTH = 2
                                                              IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION    LEVEL            MINIMUM                          MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE     NUMBER            VALUE                            VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C           3        20                  C         1
```

```
                                GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                TRANSACTION GROUP - EDA4TCAT                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                        RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                            BLOCK SIZE = 2480


                             ***********************************
                             *   1  OF  1  IDENTIFIERS IN GROUP   *
                             ***********************************

**********   ACTIONS IN IDENTIFIER = 2            IDENTIFIER ONE = (CA)
*CA      *   DEFAULT CREATE = NO                  IDENTIFIER LOCATION = 1
**********   DEFAULT INSERT = NO                  IDENTIFIER LENGTH = 2
                                                  IDENTIFIED IF EQUAL

-----------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA..........
FILE    FIELD    FIELD     FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                  MAXIMUM
FIELD   TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                    VALUE
-----------------------------------------------------------------------------------------------------------

CODE     C          3        20                 C        1

TERM     C         26        40                 P        1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                          MAR 31, 1979
                                        TRANSACTION GROUP - EDA4TCDT                                          PAGE 1

MASTER FILE NAME = EDA4MTH                                                      RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                              RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                                  BLOCK SIZE = 2480


                                    *************************************
                                    *  1  OF  1  IDENTIFIERS IN GROUP   *
                                    *************************************

**********    ACTIONS IN IDENTIFIER = 1                   IDENTIFIER ONE = (CD)
*CD      *    DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                          IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL   ACTION   LEVEL            MINIMUM                         MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES     CODE    NUMBER            VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

CODE       C          3        20                 D        1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                           MAR 31, 1979
                                        TRANSACTION GROUP - EDA4TCST                                           PAGE 1

MASTER FILE NAME = EDA4MTH                                                        RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                    BLOCK SIZE = 2480


                                      **************************************
                                      *   1  OF  1  IDENTIFIERS IN GROUP   *
                                      **************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (CS)               IDENTIFIER TWO = (    )
*CS      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1             IDENTIFIER LOCATION = 3
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2               IDENTIFIER LENGTH = 4
                                                        IDENTIFIED IF EQUAL                 IDENTIFIED IF NOT EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                      MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES     CODE     NUMBER            VALUE                        VALUE
-------------------------------------------------------------------------------------------------------------------------

CODE     C             3     20                  M         1

TERM     C            26     40                  P         1
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                   TRANSACTION GROUP - EDA4GTAA                                   PAGE 1

MASTER FILE NAME = EDA4MTH                                                      RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                              RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                  BLOCK SIZE = 2480


                                 *************************************
                                 *   1  OF  1  IDENTIFIERS IN GROUP  *
                                 *************************************

**********    ACTIONS IN IDENTIFIER = 2                   IDENTIFIER ONE = (AA)
*AA      *    DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                          IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                        MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE    NUMBER          VALUE                          VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C           3        20                  C        1

TERM      C          26        40                  P        1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                        MAR 31, 1979
                                        TRANSACTION GROUP - EDA4GTDD                                        PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                                BLOCK SIZE = 2480


                                    *************************************
                                    *   1 OF  1  IDENTIFIERS IN GROUP   *
                                    *************************************

**********    ACTIONS IN IDENTIFIER = 1              IDENTIFIER ONE = (DD)
*DD      *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 2
                                                     IDENTIFIED IF EQUAL
----------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL         MINIMUM                    MAXIMUM
FIELD   TYPE    LOCATION    LENGTH   PLACES      CODE    NUMBER         VALUE                      VALUE
----------------------------------------------------------------------------------------------------------------------

CODE     C          3         20                  D        1
```

```
                         GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                         TRANSACTION GROUP - EDA4T-UF                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                         RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                 RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                     BLOCK SIZE = 2480


                                **************************************
                                *  1  OF  1  IDENTIFIERS IN GROUP    *
                                **************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (UF)
*UF      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD      FIELD    DECIMAL     ACTION   LEVEL           MINIMUM                         MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES       CODE    NUMBER           VALUE                           VALUE
-------------------------------------------------------------------------------------------------------------------

CODE       C            3       20                   M         1

UF-REF     C           26       40                   I         2
```

```
                                  GLOSSARY BY LEVEL NUMBER FOR                              MAR 31, 1979
                                  TRANSACTION GROUP - EDA4T-RT                              PAGE 1

MASTER FILE NAME = EDA4MTH                                              RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                      RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                          BLOCK SIZE = 2480


                               ************************************
                               *  1  OF  1  IDENTIFIERS IN GROUP  *
                               ************************************

**********     ACTIONS IN IDENTIFIER = 2               IDENTIFIER ONE = (RT)
*RT      *     DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL           MINIMUM                MAXIMUM
FIELD    TYPE    LOCATION   LENGTH    PLACES      CODE    NUMBER           VALUE                  VALUE
---------------------------------------------------------------------------------------------------------

CODE       C           3       20                  M        1

RT-REF     C          26       40                  I        2
```

32 - DEFINITIONS

```
                                    GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                    TRANSACTION GROUP - EDA4T-BT                                   PAGE 1

MASTER FILE NAME = EDA4MTH                                                          RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                  RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                      BLOCK SIZE = 2480


                                  *************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP   *
                                  *************************************

**********     ACTIONS IN IDENTIFIER = 2                  IDENTIFIER ONE = (BT)
*BT      *     DEFAULT CREATE = NO                        IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                        IDENTIFIER LENGTH = 2
                                                          IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER    ...........TRANSACTION DATA...........
FILE      FIELD     FIELD     FIELD     DECIMAL    ACTION    LEVEL          MINIMUM                          MAXIMUM
FIELD     TYPE     LOCATION   LENGTH    PLACES      CODE     NUMBER          VALUE                            VALUE
------------------------------------------------------------------------------------------------------------------------

CODE       C           3        20                   M         1

BT-REF     C          26        40                   I         2
```

```
                                              GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                              TRANSACTION GROUP - EDA4T-NT                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                BLOCK SIZE = 2480


                                         **************************************
                                         *   1  OF  1  IDENTIFIERS IN GROUP   *
                                         **************************************

**********    ACTIONS IN IDENTIFIER = 2               IDENTIFIER ONE = (NT)
*NT      *    DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                      IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER ...........TRANSACTION DATA..........
FILE    FIELD    FIELD      FIELD    DECIMAL   ACTION   LEVEL            MINIMUM                   MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES     CODE    NUMBER            VALUE                     VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C           3       20                 M         1

NT-REF    C          26       40                 I         2
```

34 - DEFINITIONS

```
                                  GLOSSARY BY LEVEL NUMBER FOR                                     MAR 31, 1979
                                  TRANSACTION GROUP - EDA4T-S1                                     PAGE 1

MASTER FILE NAME = EDA4MTH                                                   RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                           RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                               BLOCK SIZE = 2480


                                        **********************************
                                        *  1  OF  1  IDENTIFIERS IN GROUP  *
                                        **********************************

**********      ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (S1)
*S1      *      DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********      DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                         IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD    FIELD     FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                          MAXIMUM
FIELD    TYPE     LOCATION  LENGTH   PLACES     CODE     NUMBER           VALUE                            VALUE
--------------------------------------------------------------------------------------------------------------------

CODE      C            3      20                 M          1

SCOPE-1   C           26      55                 P          1
```

235

```
                                              GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                              TRANSACTION GROUP - EDA4T-S2                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                BLOCK SIZE = 2480


                                         **************************************
                                         *    1  OF   1  IDENTIFIERS IN GROUP   *
                                         **************************************

**********    ACTIONS IN IDENTIFIER = 2               IDENTIFIER ONE = (S2)
*S2      *    DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER  ..........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD    DECIMAL   ACTION   LEVEL             MINIMUM                   MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES      CODE   NUMBER             VALUE                     VALUE
-------------------------------------------------------------------------------------------------------------------------

CODE      C           3       20                  M         1

SCOPE-2   C          26       55                  P         1
```

```
                                      GLOSSARY BY LEVEL NUMBER FOR                                MAR 31, 1979
                                      TRANSACTION GROUP - EDA4T-S3                                PAGE 1

MASTER FILE NAME = EDA4MTH                                                 RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                         RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                             BLOCK SIZE = 2480


                                   ***************************************
                                   *   1  OF  1  IDENTIFIERS IN GROUP    *
                                   ***************************************

**********    ACTIONS IN IDENTIFIER = 2                   IDENTIFIER ONE = (S3)
*S3      *    DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                          IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL           MINIMUM                         MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER           VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C              3      20                  M          1

SCOPE-3   C             26      55                  P          1
```

```
                                  GLOSSARY BY LEVEL NUMBER FOR                                     MAR 31, 1979
                                  TRANSACTION GROUP - EDA4T-BR                                     PAGE 1

MASTER FILE NAME = EDA4MTH                                                 RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                         RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                             BLOCK SIZE = 2480


                               ****************************************
                               *   1  OF  1  IDENTIFIERS IN GROUP     *
                               ****************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (BR)
*BR      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD      FIELD     FIELD    DECIMAL    ACTION    LEVEL         MINIMUM                  MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE     NUMBER         VALUE                    VALUE
-------------------------------------------------------------------------------------------------------------------

CODE       C          3         20                  M          1

BT-REF     C         26         40                  I          2
```

```
                                      GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                      TRANSACTION GROUP - EDA4T-NR                                   PAGE 1

MASTER FILE NAME = EDA4MTH                                                          RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                  RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                      BLOCK SIZE = 2480


                                  ***************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP    *
                                  ***************************************

**********     ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (NR)
*NR      *     DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                         IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                            MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE    NUMBER            VALUE                              VALUE
--------------------------------------------------------------------------------------------------------------------

CODE      C             3      20                  M        1

NT-REF    C            26      40                  I        2
```

```
                                              GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                              TRANSACTION GROUP - EDA4T-DF                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                BLOCK SIZE = 2480


                                         **************************************
                                         *  1  OF  1  IDENTIFIERS IN GROUP    *
                                         **************************************

**********    ACTIONS IN IDENTIFIER = 2               IDENTIFIER ONE = (DF)
*DF      *    DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                      IDENTIFIED IF EQUAL
------------------------------------------------------------------------------------------------------------------------
MASTER  ..........TRANSACTION DATA..........
FILE    FIELD     FIELD     FIELD    DECIMAL   ACTION   LEVEL            MINIMUM                   MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES     CODE    NUMBER            VALUE                     VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C           3       20                 M         1

UF-REF    C          26       40                 E         2
```

40 - DEFINITIONS

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                   TRANSACTION GROUP - EDA4T-DR                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                      RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                              RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                  BLOCK SIZE = 2480

                                ************************************
                                *  1  OF  1  IDENTIFIERS IN GROUP  *
                                ************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (DR)
*DR      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

----------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION    LEVEL           MINIMUM                 MAXIMUM
FIELD    TYPE    LOCATION   LENGTH    PLACES      CODE     NUMBER           VALUE                   VALUE
----------------------------------------------------------------------------------------------------------------

CODE      C          3        20                   M          1

RT-REF    C         26        40                   E          2
```

```
                                          GLOSSARY BY LEVEL NUMBER FOR                                      MAR 31, 1979
                                          TRANSACTION GROUP - EDA4T-DB                                      PAGE 1

MASTER FILE NAME = EDA4MTH                                                       RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                               RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                   BLOCK SIZE = 2480


                                       **************************************
                                       *  1 OF 1  IDENTIFIERS IN GROUP      *
                                       **************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (DB)
*DB      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                          MAXIMUM
FIELD   TYPE    LOCATION    LENGTH    PLACES      CODE    NUMBER          VALUE                            VALUE
-------------------------------------------------------------------------------------------------------------------------

CODE      C            3       20                  M         1

BT-REF    C           26       40                  E         2
```

42 - DEFINITIONS

```
                              GLOSSARY BY LEVEL NUMBER FOR                                MAR 31, 1979
                              TRANSACTION GROUP - EDA4T-DN                                PAGE 1

MASTER FILE NAME = EDA4MTH                                              RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                      RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                          BLOCK SIZE = 2480


                                    ****************************************
                                    *   1  OF  1  IDENTIFIERS IN GROUP     *
                                    ****************************************

**********     ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (DN)
*DN      *     DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL
---------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD   DECIMAL    ACTION   LEVEL             MINIMUM                              MAXIMUM
FIELD   TYPE     LOCATION   LENGTH  PLACES     CODE     NUMBER             VALUE                                VALUE
---------------------------------------------------------------------------------------------------------------------------

CODE      C            3      20                 M        1

NT-REF    C           26      40                 E        2
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                   TRANSACTION GROUP - EDA4T-DS                                  PAGE 1

MASTER FILE NAME = EDA4MTH                                                  RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                          RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                              BLOCK SIZE = 2400


                              ************************************
                              *  1  OF  1  IDENTIFIERS IN GROUP   *
                              ************************************

**********    ACTIONS IN IDENTIFIER = 2              IDENTIFIER ONE = (DS)
*DS      *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 2
                                                     IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------------
MASTER    ...........TRANSACTION DATA..........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL             MINIMUM                              MAXIMUM
FIELD   TYPE    LOCATION   LENGTH    PLACES      CODE    NUMBER             VALUE                                VALUE
--------------------------------------------------------------------------------------------------------------------------

CODE      C            3       20                  M        1

SCOPE-NT  C            1        2                  B        1
```

44 - DEFINITIONS

```
                                 GLOSSARY BY LEVEL NUMBER FOR                               MAR 31, 1979
                                 TRANSACTION GROUP - EDA4T-LE                               PAGE 1

MASTER FILE NAME = EDA4MTH                                         RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                 RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                     BLOCK SIZE = 2480


                                  ***********************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP             *
                                  ***********************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (LE)
*LE      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD    FIELD     FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                    MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                      VALUE
------------------------------------------------------------------------------------------------------------------

CODE      C         26        20                 C         1

TERM      C         26        40                 P         1
```

```
                                          GLOSSARY BY LEVEL NUMBER FOR                                        MAR 31, 1979
                                          TRANSACTION GROUP - EDA4T-UN                                        PAGE 1

MASTER FILE NAME = EDA4MTH                                                        RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                    BLOCK SIZE = 2480


                                       **************************************
                                       *  1  OF  1  IDENTIFIERS IN GROUP    *
                                       **************************************

**********    ACTIONS IN IDENTIFIER = 2                     IDENTIFIER ONE = (UN)
*UN      *    DEFAULT CREATE = NO                           IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                           IDENTIFIER LENGTH = 2
                                                            IDENTIFIED IF EQUAL

-----------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL              MINIMUM                        MAXIMUM
FIELD    TYPE    LOCATION   LENGTH    PLACES      CODE    NUMBER              VALUE                          VALUE
-----------------------------------------------------------------------------------------------------------------------

CODE       C          3        20                  M         1

LE-REF     C         26        40                  I         2
```

```
                                     GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                     TRANSACTION GROUP - EDA4T-UR                                   PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                BLOCK SIZE = 2400


                                  ***************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP    *
                                  ***************************************

***********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (UR)
*UR       *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
***********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

-----------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION    LEVEL          MINIMUM                       MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE     NUMBER          VALUE                         VALUE
-----------------------------------------------------------------------------------------------------------------------

CODE      C            3       20                  M          1

LE-REF    C           26       40                  1          2
```

```
                                    GLOSSARY BY LEVEL NUMBER FOR                               MAR 31, 1979
                                    TRANSACTION GROUP - EDA4T-UA                               PAGE 1

MASTER FILE NAME = EDA4MTH                                                   RECORD FORMAT - FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                           RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                               BLOCK SIZE = 2480


                                  **************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP   *
                                  **************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (UA)
*UA      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD   DECIMAL   ACTION   LEVEL          MINIMUM                            MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                              VALUE
------------------------------------------------------------------------------------------------------------------------

CODE      C           3       20                 M        1

LE-REF    C          26       40                 I        2
```

48 - DEFINITIONS

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                    MAR 31, 1979
                                        TRANSACTION GROUP - EDA4T-SE                                    PAGE 1

MASTER FILE NAME = EDA4MTH                                                     RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                             RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                 BLOCK SIZE = 2480


                                     **************************************
                                     *  1  OF  1  IDENTIFIERS IN GROUP    *
                                     **************************************

**********    ACTIONS IN IDENTIFIER = 2                  IDENTIFIER ONE = (SE)
*SE      *    DEFAULT CREATE = NO                        IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                        IDENTIFIER LENGTH = 2
                                                         IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD     DECIMAL    ACTION   LEVEL           MINIMUM                         MAXIMUM
FIELD   TYPE     LOCATION   LENGTH    PLACES      CODE    NUMBER           VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

CODE     C            3       20                   M         1

LE-REF   C           26       40                   I         2
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                           MAR 31, 1979
                                   TRANSACTION GROUP - EDA4T-DL                           PAGE 1

MASTER FILE NAME = EDA4MTH                                              RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                      RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 1                                          BLOCK SIZE = 2480


                                *************************************
                                *  1  OF  1  IDENTIFIERS IN GROUP   *
                                *************************************

**********    ACTIONS IN IDENTIFIER = 1               IDENTIFIER ONE = (DL)
*DL      *    DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                      IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD      FIELD     FIELD   DECIMAL   ACTION   LEVEL           MINIMUM                         MAXIMUM
FIELD   TYPE     LOCATION   LENGTH   PLACES     CODE    NUMBER           VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

CODE     C           3        20                 D        1
```

50 - DEFINITIONS

```
                                              GLOSSARY BY LEVEL NUMBER FOR                              MAR 31, 1979
                                              TRANSACTION GROUP - EDA4T-MU                              PAGE 1

MASTER FILE NAME = EDA4MTH                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                BLOCK SIZE = 2480


                                         *************************************
                                         *  1  OF  1  IDENTIFIERS IN GROUP   *
                                         *************************************

**********    ACTIONS IN IDENTIFIER = 2             IDENTIFIER ONE = (MU)
*MU      *    DEFAULT CREATE = NO                   IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                   IDENTIFIER LENGTH = 2
                                                    IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER  ..........TRANSACTION DATA..........
FILE    FIELD    FIELD     FIELD   DECIMAL   ACTION   LEVEL           MINIMUM                        MAXIMUM
FIELD   TYPE    LOCATION  LENGTH   PLACES     CODE    NUMBER           VALUE                          VALUE
------------------------------------------------------------------------------------------------------------------------

CODE     C           3      20                 M         1

LE-REF   C          26      40                 1         2
```

```
                                  GLOSSARY BY LEVEL NUMBER FOR                                    MAR 31, 1979
                                  TRANSACTION GROUP - EDA4T-MA                                    PAGE 1

MASTER FILE NAME = EDA4MTH                                                   RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                           RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                               BLOCK SIZE = 2480


                               ************************************
                               *  1 OF  1  IDENTIFIERS IN GROUP   *
                               ************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (MA)
*MA      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD    FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                         MAXIMUM
FIELD    TYPE     LOCATION  LENGTH   PLACES     CODE     NUMBER         VALUE                           VALUE
--------------------------------------------------------------------------------------------------------------------

CODE      C          3       20                  M         1

LE-REF    C         26       40                  I         2
```

```
                                          GLOSSARY BY LEVEL NUMBER FOR                                            MAR 31, 1979
                                          TRANSACTION GROUP - EDA4T-MS                                            PAGE 1

MASTER FILE NAME = EDA4MTH                                                          RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                                  RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 2                                                      BLOCK SIZE = 2400


                                    ***************************************
                                    *   1  OF  1  IDENTIFIERS IN GROUP    *
                                    ***************************************

**********      ACTIONS IN IDENTIFIER = 2                   IDENTIFIER ONE = (MS)
*MS      *      DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********      DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                            IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION    LEVEL              MINIMUM                          MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE     NUMBER              VALUE                            VALUE
-------------------------------------------------------------------------------------------------------------------------

CODE       C          3        20                  M         1

LE-REF     C         26        40                  I         2
```

```
                              DETAILED GLOSSARY BY LOCATION FOR                                       MAR 31, 1979
                                FILE DEFINITION - EDA4TRNT                                             PAGE 1

FILE IDENTIFICATION =                                                         RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                                RECORD SIZE = 80
NUMBER OF FIELDS IN FILE = 10                                                 BLOCK SIZE = 2400


                              ********************************
                              *     SEGMENT  1, LEVEL 1      *
                              ********************************

SEGMENT OCCURS N TIMES = 1                                             KEY FIELD 1 = CODE       TYPE = C   LENGTH = 20
SEGMENT SIZE = 80
NUMBER OF FIELDS IN SEGMENT = 10

-------------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD    DEC     CNT FIELD  EDIT CODES       EDIT     OUTPUT   LINE         COLUMN
NAME      TYPE    LOCATION  LENGTH  RNDING   PLACES  FOR SGMT   ( ) ( ) ( )      LENGTH   WIDTH     NO    ***   HEADING    ***
-------------------------------------------------------------------------------------------------------------------------

TRAN-ID    C           1       2                                                   2        2

TRAN-ID1   C           1       1                                                   1        1

TRAN       C           1      80                                                  80       80

TRAN-ID2   C           2       1                                                   1        1

CODE       C           3      20                                                  20       20

OVRFLW-C   C          23       3                                                   3        3

TERM       C          26      40                                                  40       40

TRANTERM   C          26      55                                                  55       55

NEWCODE    C          26      20                                                  20       20

OVRFLW-T   C          66      15                                                  15       15
```

```
                               DETAILED GLOSSARY BY LOCATION FOR                                MAR 31, 1979
                                 FILE DEFINITION - EDA4TRL                                      PAGE 1

FILE IDENTIFICATION =                                                          RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                                 RECORD SIZE = 107
NUMBER OF FIELDS IN FILE = 7                                                   BLOCK SIZE = 6420


                                  *******************************
                                  *     SEGMENT  1, LEVEL 1     *
                                  *******************************

SEGMENT OCCURS N TIMES = 1                                            KEY FIELD 1 = SRT-TERM   TYPE = C   LENGTH = 40
SEGMENT SIZE = 107                                                    KEY FIELD 2 = REL-SEQ    TYPE = C   LENGTH = 1
NUMBER OF FIELDS IN SEGMENT = 7                                       KEY FIELD 3 = REF-TERM   TYPE = C   LENGTH = 40

---------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD  FIELD    DEC   CNT FIELD EDIT CODES      EDIT   OUTPUT   LINE          COLUMN
NAME     TYPE  LOCATION  LENGTH  RNDING  PLACES FOR SGMT  ( ) ( ) ( )    LENGTH   WIDTH    NO   ***      HEADING    ***
---------------------------------------------------------------------------------------------------------------------

SRT-TERM  C          1      40                                            40       40

REL-SEQ   C         41       1                                             1        1

REL-TYPE  C         41       2                                             2        2

CNTL-BRK  C         42       1                                             1        1

LINE-BLD  C         43      65                                            65       65

REL-PRNT  C         46       3                                             3        3

REF-TERM  C         51      40                                            40       40
```

FILE AND TRANSACTION DEFINITIONS
RELATED TO
SOURCE TERMS

```
                                DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                                   FILE DEFINITION - EDA4STIN                                      PAGE 1

FILE IDENTIFICATION =                                                    RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                           RECORD SIZE = 183
NUMBER OF FIELDS IN FILE = 11                                            BLOCK SIZE = 4209


                                ********************************
                                *     SEGMENT  1, LEVEL 1      *
                                ********************************

SEGMENT OCCURS N TIMES = 1                                    KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 183
NUMBER OF FIELDS IN SEGMENT = 11

----------------------------------------------------------------------------------------------------------------------
FIELD     FIELD  FIELD     FIELD  FIELD  DEC    CNT FIELD EDIT CODES    EDIT   OUTPUT  LINE        COLUMN
NAME      TYPE   LOCATION  LENGTH RNDING PLACES FOR SGMT  ( ) ( ) ( )   LENGTH WIDTH    NO   ***   HEADING     ***
----------------------------------------------------------------------------------------------------------------------

TRAN-ID    C          1       1                                            1      1

SRC-TYPE   C          2       1                                            1      1

OCC-ID     C          3      23                                           23     23

SRC-ID     C          3      16                                           16     16

SRC-LOC    C         19       4                                            4      4

SRC-SEQ    C         23       3                                            3      3

TERM-ID    F         26       4                                            5      5

TERM       C         30     154                                          154    154

TERM1      C         30      44                                           44     44

TERM2      C         74      55                                           55     55

TERM3      C        129      55                                           55     55
```

```
                                 GLOSSARY BY LEVEL NUMBER FOR                                          MAR 31, 1979
                                 TRANSACTION GROUP - EDA4-STE                                          PAGE 1

MASTER FILE NAME = EDA4STIN                                                     RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 5                                              RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 12                                                 BLOCK SIZE = 2400


                              *************************************
                              *  1  OF  5  IDENTIFIERS IN GROUP  *
                              *************************************

**********    ACTIONS IN IDENTIFIER = 4                  IDENTIFIER ONE = (1)
*1       *    DEFAULT CREATE = NO                        IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                        IDENTIFIER LENGTH = 1
                                                         IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------
MASTER    ...........TRANSACTION DATA...........
FILE      FIELD     FIELD     FIELD     DECIMAL    ACTION   LEVEL          MINIMUM                    MAXIMUM
FIELD     TYPE    LOCATION    LENGTH    PLACES     CODE     NUMBER          VALUE                      VALUE
------------------------------------------------------------------------------------------------------------------

OCC-ID     C           3        23                  C         1

TERM1      C          37        44                  P         1

SRC-TYPE   C           2         1                  P         1

TRAN-ID    C           1         1                  P         1
```

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```
                                   *************************************
                                   *  2  OF  5  IDENTIFIERS IN GROUP   *
                                   *************************************

**********    ACTIONS IN IDENTIFIER = 3              IDENTIFIER ONE = (U)
*U       *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 1
                                                     IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL           MINIMUM                         MAXIMUM
FIELD    TYPE    LOCATION   LENGTH    PLACES      CODE    NUMBER           VALUE                           VALUE
---------------------------------------------------------------------------------------------------------------------

OCC-ID     C            3       23                  M        1

TERM1      C           37       44                  R        1

SRC-TYPE   C            2        1                  R        1
```

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                          MAR 31, 1979
                                        TRANSACTION GROUP - EDA4-STE                                          PAGE 3


                                     ************************************
                                     *   3  OF  5  IDENTIFIERS IN GROUP   *
                                     ************************************

***********    ACTIONS IN IDENTIFIER = 2                    IDENTIFIER ONE = (2)
*2        *    DEFAULT CREATE = NO                          IDENTIFIER LOCATION = 1
***********    DEFAULT INSERT = NO                          IDENTIFIER LENGTH = 1
                                                            IDENTIFIED IF EQUAL

----------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL              MINIMUM                          MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER              VALUE                            VALUE
----------------------------------------------------------------------------------------------------------------------------

OCC-ID     C            3       23                  M         1

TERM2      C           26       55                  P         1
```

```
                         ***********************************
                         *   4  OF  5  IDENTIFIERS IN GROUP  *
                         ***********************************

**********    ACTIONS IN IDENTIFIER = 2              IDENTIFIER ONE = (3)
*3       *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 1
                                                     IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD      FIELD     DECIMAL    ACTION   LEVEL          MINIMUM                    MAXIMUM
FIELD    TYPE      LOCATION   LENGTH    PLACES     CODE     NUMBER          VALUE                      VALUE
------------------------------------------------------------------------------------------------------------------

OCC-ID    C            3        23                  M         1

TERM3     C           26        55                  P         1
```

236

237

64 - DEFINITIONS

```
                              ****************************************
                              *   5  OF  5  IDENTIFIERS IN GROUP     *
                              ****************************************

**********    ACTIONS IN IDENTIFIER = 1              IDENTIFIER ONE = (D)
*D       *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 1
                                                     IDENTIFIED IF EQUAL

----------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD    FIELD      FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                    MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES     CODE     NUMBER         VALUE                      VALUE
----------------------------------------------------------------------------------------------------------------------------

OCC-ID    C           3        23                  D        1
```

288

239

```
                                      DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                                         FILE DEFINITION - EDA4MSTI                                      PAGE 1

FILE IDENTIFICATION =                                                         RECORD FORMAT = VARIABLE BLOCKED
NUMBER OF SEGMENTS IN FILE = 5                                                RECORD SIZE = 4242
NUMBER OF FIELDS IN FILE = 18                                                 BLOCK SIZE = 4250


                                         ******************************
                                         *     SEGMENT  1, LEVEL 1    *
                                         *   SEGMENT NAME = BASE      *
                                         ******************************

SEGMENT OCCURS N TIMES = 1                                          KEY FIELD 1 = TERM       TYPE = C   LENGTH = 154
SEGMENT SIZE = 200
NUMBER OF FIELDS IN SEGMENT = 8

----------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD    DEC     CNT FIELD  EDIT CODES      EDIT    OUTPUT   LINE         COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING  PLACES   FOR SGMT   ( ) ( ) ( )    LENGTH   WIDTH    NO   ***    HEADING     ***
----------------------------------------------------------------------------------------------------------------------

TERM-ID   F          1       4                                                  5        5

TERM      C          5     154                                                154      154

ALPHKEY   F        159       4                                                  5        5

CODE      C        163      30                                                 30       30

TOTOCC    F        193       2                                                  3        3

NO-TEXT   F        195       2                        2                         2        2

NO-XREF   F        197       2                        4                         3        3

NO-KP     F        199       2                        5                         2        2
```

```
                                   DETAILED GLOSSARY BY LOCATION FOR                                       MAR 31, 1979
                                      FILE DEFINITION - EDA4HSTI                                           PAGE 2


                                    ******************************
                                    *     SEGMENT  2, LEVEL 2    *
                                    *  SEGMENT NAME = TEXT       *
                                    ******************************

COUNT FIELD FOR SEGMENT = NO-TEXT                                      KEY FIELD 1 = ORIGINAL   TYPE = C   LENGTH = 154
SEGMENT SIZE = 156
NUMBER OF FIELDS IN SEGMENT = 2

------------------------------------------------------------------------------------------------------------------------
FIELD     FIELD  FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT  LINE         COLUMN
NAME      TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH    NO   ***    HEADING    ***
------------------------------------------------------------------------------------------------------------------------

ORIGINAL  C            1     154                                             154     154

NO-OCC    F          155       2                       3                       2       2
```

66 - DEFINITIONS

```
                         DETAILED GLOSSARY BY LOCATION FOR                                      MAR 31, 1979
                           FILE DEFINITION - EDA4MSTI                                           PAGE 3


                               ******************************
                               *     SEGMENT  3, LEVEL 3    *
                               *   SEGMENT NAME = OCC       *
                               ******************************

COUNT FIELD FOR SEGMENT = NO-OCC                                  KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 24
NUMBER OF FIELDS IN SEGMENT = 6

-------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD    DEC     CNT FIELD  EDIT CODES      EDIT    OUTPUT   LINE       COLUMN
NAME      TYPE    LOCATION  LENGTH  RNDING   PLACES  FOR SGMT   ( ) ( ) ( )     LENGTH  WIDTH     NO  ***   HEADING   ***
-------------------------------------------------------------------------------------------------------------------

SRC-TYPE   C           1       1                                                  1       1

OCC-SEG    C           1      24                                                 24      24

OCC-ID     C           2      23                                                 23      23

SRC-ID     C           2      16                                                 16      16

SRC-LOC    C          18       4                                                  4       4

SRC-SEQ    C          22       3                                                  3       3
```

```
                          *******************************
                          *     SEGMENT  4, LEVEL 2     *
                          *   SEGMENT NAME = CROSSREF   *
                          *******************************

COUNT FIELD FOR SEGMENT = NO-XREF                           KEY FIELD 1 = XREF       TYPE = C   LENGTH = 55
SEGMENT SIZE = 55
NUMBER OF FIELDS IN SEGMENT = 1

-------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD    DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT    LINE       COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING   PLACES   FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH     NO   ***   HEADING   ***
-------------------------------------------------------------------------------------------------------------------

XREF       C        1       55                                                55       55
```

```
                          ******************************
                          *     SEGMENT  5, LEVEL 2     *
                          *   SEGMENT NAME = KP         *
                          ******************************

COUNT FIELD FOR SEGMENT = NO-KP                                 KEY FIELD 1 = KEYPHRAS   TYPE = C   LENGTH = 30
SEGMENT SIZE = 30
NUMBER OF FIELDS IN SEGMENT = 1

----------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD    FIELD   FIELD    DEC    CNT FIELD  EDIT CODES    EDIT    OUTPUT  LINE        COLUMN
NAME      TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH  WIDTH    NO   ***   HEADING   ***
----------------------------------------------------------------------------------------------------------------

KEYPHRAS  C           1      30                                             30      30
```

```
                                      GLOSSARY BY LEVEL NUMBER FOR                                        MAR 31, 1979
                                      TRANSACTION GROUP - EDA4-STI                                        PAGE 1

MASTER FILE NAME = EDA4MSTI                                                   RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 1                                            RECORD SIZE = 183
NUMBER OF ACTIONS IN GROUP = 4                                                BLOCK SIZE = 4209


                                  **************************************
                                  *   1  OF  1  IDENTIFIERS IN GROUP   *
                                  **************************************

**********    ACTIONS IN IDENTIFIER = 4            IDENTIFIER ONE = (1)
*1       *    DEFAULT CREATE = YES                 IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = YES                 IDENTIFIER LENGTH = 1
                                                   IDENTIFIED IF EQUAL
------------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA..........
FILE     FIELD    FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                      MAXIMUM
FIELD    TYPE     LOCATION  LENGTH   PLACES     CODE     NUMBER          VALUE                        VALUE
------------------------------------------------------------------------------------------------------------------------

TERM      C          30      154                  M        1

ORIGINAL  C          30      154                  M        2

OCC-ID    C           3       23                  M        3

SRC-TYPE  C           2        1                  P        3
```

```
                              DETAILED GLOSSARY BY LOCATION FOR                          MAR 31, 1979
                                FILE DEFINITION - EDA4MSTR                               PAGE 1

FILE IDENTIFICATION =                                                    RECORD FORMAT = VARIABLE BLOCKED
NUMBER OF SEGMENTS IN FILE = 5                                           RECORD SIZE = 4242
NUMBER OF FIELDS IN FILE = 18                                            BLOCK SIZE = 4250


                              ********************************
                              *     SEGMENT  1, LEVEL 1      *
                              *   SEGMENT NAME = BASE        *
                              ********************************

SEGMENT OCCURS N TIMES = 1                                      KEY FIELD 1 = TERM-ID    TYPE = F   LENGTH = 4
SEGMENT SIZE = 200
NUMBER OF FIELDS IN SEGMENT = 8

------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT   LINE          COLUMN
NAME     TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH     NO    ***    HEADING     ***
------------------------------------------------------------------------------------------------------------------

TERM-ID   F          1        4                                                5       5

TERM      C          5      154                                              154     154

ALPHKEY   F        159        4                                                5       5

CODE      C        163       30                                               30      30

TOTOCC    F        193        2                                                3       3

NO-TEXT   F        195        2                        2                       2       2

NO-XREF   F        197        2                        4                       3       3

NO-KP     F        199        2                        5                       2       2
```

302

303

```
                         DETAILED GLOSSARY BY LOCATION FOR                          MAR 31, 1979
                           FILE DEFINITION - EDA4MSTR                               PAGE 2

                            ******************************
                            *     SEGMENT  2, LEVEL 2    *
                            *   SEGMENT NAME = TEXT      *
                            ******************************

COUNT FIELD FOR SEGMENT = NO-TEXT                         KEY FIELD 1 = ORIGINAL   TYPE = C   LENGTH = 154
SEGMENT SIZE = 156
NUMBER OF FIELDS IN SEGMENT = 2

------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD    DEC     CNT FIELD  EDIT CODES    EDIT     OUTPUT   LINE          COLUMN
NAME      TYPE    LOCATION  LENGTH  RNDING   PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH     NO    ***    HEADING    ***
------------------------------------------------------------------------------------------------------------------

ORIGINAL  C             1     154                                              154      154

NO-OCC    F           155       2                        3                       2        2
```

```
                      DETAILED GLOSSARY BY LOCATION FOR                                 MAR 31, 1979
                         FILE DEFINITION - EDA4MSTR                                     PAGE 3


                        ********************************
                        *      SEGMENT  3, LEVEL 3     *
                        *    SEGMENT NAME = OCC        *
                        ********************************

COUNT FIELD FOR SEGMENT = NO-OCC                                KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 24
NUMBER OF FIELDS IN SEGMENT = 6

----------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD    FIELD    DEC     CNT FIELD  EDIT CODES    EDIT     OUTPUT   LINE        COLUMN
NAME      TYPE    LOCATION  LENGTH   RNDING   PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH    NO   ***    HEADING    ***
----------------------------------------------------------------------------------------------------------------------

SRC-TYPE   C            1       1                                                1        1

OCC-SEG    C            1      24                                               24       24

OCC-ID     C            2      23                                               23       23

SRC-ID     C            2      16                                               16       16

SRC-LOC    C           18       4                                                4        4

SRC-SEQ    C           22       3                                                3        3
```

```
                                 DETAILED GLOSSARY BY LOCATION FOR                                MAR 31, 1979
                                   FILE DEFINITION - EDA4MSTR                                     PAGE 4

                                  ******************************
                                  *     SEGMENT  4, LEVEL 2    *
                                  *   SEGMENT NAME = CROSSREF  *
                                  ******************************

COUNT FIELD FOR SEGMENT = NO-XREF                                   KEY FIELD 1 = XREF       TYPE = C   LENGTH = 55
SEGMENT SIZE = 55
NUMBER OF FIELDS IN SEGMENT = 1

---------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD   DEC    CNT FIELD EDIT CODES    EDIT    OUTPUT  LINE         COLUMN
NAME     TYPE   LOCATION   LENGTH  RNDING  PLACES FOR SGMT  ( ) ( ) ( )  LENGTH   WIDTH    NO   ***    HEADING     ***
---------------------------------------------------------------------------------------------------------------------

XREF      C         1       55                                             55      55
```

```
                                      DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                                         FILE DEFINITION - EDA4MSTR                                      PAGE 5


                                      ******************************
                                      *     SEGMENT  5, LEVEL 2    *
                                      *   SEGMENT NAME = KP        *
                                      ******************************

COUNT FIELD FOR SEGMENT = NO-KP                                   KEY FIELD 1 = KEYPHRAS   TYPE = C   LENGTH = 30
SEGMENT SIZE = 30
NUMBER OF FIELDS IN SEGMENT = 1

-----------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT   LINE         COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )   LENGTH   WIDTH    NO    ***   HEADING    ***
-----------------------------------------------------------------------------------------------------------------------

KEYPHRAS  C         1       30                                               30       30
```

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```
                                   GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                   TRANSACTION GROUP - EDA4-STU                                  PAGE 1

MASTER FILE NAME = EDA4MSTR                                            RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 10                                    RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 15                                        BLOCK SIZE = 2480


                                ****************************************
                                *   1  OF  10 IDENTIFIERS IN GROUP     *
                                ****************************************

**********     ACTIONS IN IDENTIFIER = 2                   IDENTIFIER ONE = (GC)
*GC      *     DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                           IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD      FIELD     FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                        MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER          VALUE                          VALUE
------------------------------------------------------------------------------------------------------------------

TERM-ID   C           3         5                   M        1

CODE      C          26        30                   P        1          EDIT = 9IIIIIIIIIIIIIIIIIIIIIIIIIIIII
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                               MAR 31, 1979
                                   TRANSACTION GROUP - EDA4-STU                               PAGE 2

                                ************************************
                                *  2  OF  10 IDENTIFIERS IN GROUP  *
                                ************************************

**********   ACTIONS IN IDENTIFIER = 1               IDENTIFIER ONE = (LT)
*LT      *   DEFAULT CREATE = NO                     IDENTIFIER LOCATION = 1
**********   DEFAULT INSERT = NO                     IDENTIFIER LENGTH = 2
                                                     IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD      FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                  MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES    CODE     NUMBER          VALUE                    VALUE
-------------------------------------------------------------------------------------------------------------

TERM-ID   C          3          5                  M        1
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                    MAR 31, 1979
                                   TRANSACTION GROUP - EDA4-STU                                    PAGE 3


                                ***********************************
                                *  3  OF  10 IDENTIFIERS IN GROUP *
                                ***********************************

**********    ACTIONS IN IDENTIFIER = 1                 IDENTIFIER ONE = (DT)
*DT      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD    FIELD      FIELD    DECIMAL    ACTION    LEVEL            MINIMUM                         MAXIMUM
FIELD    TYPE    LOCATION    LENGTH   PLACES      CODE     NUMBER            VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

TERM-ID   C          3         5                   D         1
```

```
                                        ************************************
                                        *   4  OF  10 IDENTIFIERS IN GROUP   *
                                        ************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (DK)
*DK      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA.........
FILE     FIELD      FIELD     FIELD   DECIMAL    ACTION   LEVEL            MINIMUM                        MAXIMUM
FIELD    TYPE      LOCATION   LENGTH  PLACES     CODE     NUMBER            VALUE                          VALUE
--------------------------------------------------------------------------------------------------------------------------

TERM-ID   C            3         5                 M         1

KEYPHRAS  C           26        30                 E         2
```

```
                                   **************************************
                                   *   5  OF  10 IDENTIFIERS IN GROUP   *
                                   **************************************

**********    ACTIONS IN IDENTIFIER = 2                IDENTIFIER ONE = (AK)
*AK      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL           MINIMUM                     MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER           VALUE                       VALUE
------------------------------------------------------------------------------------------------------------------------

TERM-ID   C           3         5                   M         1

KEYPHRAS  C          26        30                   I         2
```

```
                              GLOSSARY BY LEVEL NUMBER FOR                                        MAR 31, 1979
                              TRANSACTION GROUP - EDA4-STU                                        PAGE 6

                              **************************************
                              *   6  OF  10 IDENTIFIERS IN GROUP   *
                              **************************************

**********     ACTIONS IN IDENTIFIER = 2             IDENTIFIER ONE = (DX)
*DX      *     DEFAULT CREATE = NO                   IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                   IDENTIFIER LENGTH = 2
                                                     IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD    FIELD     FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                      MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER          VALUE                        VALUE
------------------------------------------------------------------------------------------------------------------------

TERM-ID   C          3        5                  M        1

XREF      C         26       55                  E        2
```

```
                                       GLOSSARY BY LEVEL NUMBER FOR                              MAR 31, 1979
                                       TRANSACTION GROUP - EDA4-STU                              PAGE 7


                                    **************************************
                                    *   7  OF  10 IDENTIFIERS IN GROUP   *
                                    **************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (AX)
*AX      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL          MINIMUM                        MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER          VALUE                          VALUE
-------------------------------------------------------------------------------------------------------------------------

TERM-ID   C           3          5                  M         1

XREF      C          26         55                  I         2
```

```
                                    ****************************************
                                    *   8  OF  10 IDENTIFIERS IN GROUP     *
                                    ****************************************

***********    ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (T)
*T        *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
***********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 1
                                                        IDENTIFIED IF EQUAL

-----------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD    FIELD      FIELD    DECIMAL    ACTION    LEVEL            MINIMUM                       MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES     CODE      NUMBER           VALUE                         VALUE
-----------------------------------------------------------------------------------------------------------------------

TERM-ID  C            3        5                  M          1
```

```
                                   GLOSSARY BY LEVEL NUMBER FOR                                    MAR 31, 1979
                                   TRANSACTION GROUP - EDA4-STU                                    PAGE 9


                                ************************************
                                *   9  OF  10 IDENTIFIERS IN GROUP   *
                                ************************************

**********     ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (M)
*M       *     DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 1
                                                        IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                       MAXIMUM
FIELD   TYPE .  LOCATION   LENGTH    PLACES      CODE    NUMBER            VALUE                         VALUE
--------------------------------------------------------------------------------------------------------------------

TERM-ID  C            3        5                  M         1
```

```
                              ****************************************
                              *   10 OF  10 IDENTIFIERS IN GROUP     *
                              ****************************************

**********    ACTIONS IN IDENTIFIER = 1                   IDENTIFIER ONE = (DR)
*DR      *    DEFAULT CREATE = NO                         IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                         IDENTIFIER LENGTH = 2
                                                          IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------------------
MASTER   ..........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL         MINIMUM                    MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES     CODE     NUMBER        VALUE                      VALUE
---------------------------------------------------------------------------------------------------------------------

TERM-ID   C          3         5                  M        1
```

```
                              DETAILED GLOSSARY BY LOCATION FOR                                   MAR 31, 1979
                                FILE DEFINITION - EDA4TRNS                                        PAGE 1

FILE IDENTIFICATION = EDA4MSTR                                               RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                               RECORD SIZE = 80
NUMBER OF FIELDS IN FILE = 15                                                BLOCK SIZE = 2480


                              ******************************
                              *     SEGMENT  1, LEVEL 1    *
                              ******************************

SEGMENT OCCURS N TIMES = 1                                      KEY FIELD 1 = TERM-ID    TYPE = C   LENGTH = 5
SEGMENT SIZE = 80
NUMBER OF FIELDS IN SEGMENT = 15

-----------------------------------------------------------------------------------------------------------------
FIELD    FIELD  FIELD     FIELD   FIELD   DEC     CNT FIELD EDIT CODES   EDIT    OUTPUT  LINE         COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT  ( ) ( ) ( )  LENGTH  WIDTH    NO   ***    HEADING    ***
-----------------------------------------------------------------------------------------------------------------

TRAN-ID    C         1        2                                             2       2

TRAN-ID1   C         1        1                                             1       1

TRAN       C         1       80                                            80      80

SRC-TYPE   C         2        1                                             1       1

TERM-ID    C         3        5                                             5       5

OCC-ID     C        26       23                                            23      23

CODE       C        26       30                                            30      30

NEW-TEXT   C        26       55                                            55      55

XREF       C        26       55                                            55      55

SRC-ID     C        26       16                                            16      16

CS         C        26       20                                            20      20

SRC-LOC    C        42        4                                             4       4

GS         C        46       10                                            10      10

SRC-SEQ    C        46        3                                             3       3

NEW-OCC    C        49       23                                            23      23
```

```
                             DETAILED GLOSSARY BY LOCATION FOR                                        MAR 31, 1979
                               FILE DEFINITION - EDA4MSTA                                             PAGE

FILE IDENTIFICATION =                                              RECORD FORMAT = VARIABLE BLOCKED
NUMBER OF SEGMENTS IN FILE = 5                                     RECORD SIZE = 4242
NUMBER OF FIELDS IN FILE = 18                                      BLOCK SIZE = 4250


                              *******************************
                              *     SEGMENT  1, LEVEL 1     *
                              *   SEGMENT NAME = BASE       *
                              *******************************

SEGMENT OCCURS N TIMES = 1                                   KEY FIELD 1 = ALPHKEY    TYPE = F   LENGTH = 4
SEGMENT SIZE = 200
NUMBER OF FIELDS IN SEGMENT = 8

------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT   LINE         COLUMN
NAME     TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH     NO   ***    HEADING     ***
------------------------------------------------------------------------------------------------------------------

TERM-ID   F            1       4                                               5       5

TERM      C            5     154                                             154     154

ALPHKEY   F          159       4                                               5       5

CODE      C          163      30                                              30      30

TOTOCC    F          193       2                                               3       3

NO-TEXT   F          195       2                      2                        2       2

NO-XREF   F          197       2                      4                        3       3

NO-KP     F          199       2                      5                        2       2
```

```
                         DETAILED GLOSSARY BY LOCATION FOR                                   MAR 31, 1979
                            FILE DEFINITION - EDA4MSTA                                       PAGE 2


                              ******************************
                              *      SEGMENT  2, LEVEL 2    *
                              *   SEGMENT NAME = TEXT       *
                              ******************************

COUNT FIELD FOR SEGMENT = NO-TEXT                                        KEY FIELD 1 = ORIGINAL   TYPE = C   LENGTH = 154
SEGMENT SIZE = 156
NUMBER OF FIELDS IN SEGMENT = 2

----------------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD  FIELD   DEC    CNT FIELD EDIT CODES   EDIT   OUTPUT  LINE          COLUMN
NAME     TYPE   LOCATION LENGTH RNDING  PLACES  FOR SGMT  ( ) ( ) ( ) LENGTH  WIDTH    NO   ***     HEADING       ***
----------------------------------------------------------------------------------------------------------------------------

ORIGINAL  C         1     154                                          154     154

NO-OCC    F       155       2                     3                      2       2
```

```
                                    DETAILED GLOSSARY BY LOCATION FOR                                   MAR 31, 1979
                                      FILE DEFINITION - EDA4MSTA                                        PAGE 3

                                     ******************************
                                     *     SEGMENT  3, LEVEL 3    *
                                     *   SEGMENT NAME = OCC       *
                                     ******************************

COUNT FIELD FOR SEGMENT = NQ-OCC                                  KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 24
NUMBER OF FIELDS IN SEGMENT = 6

------------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD   DEC     CNT FIELD  EDIT CODES     EDIT    OUTPUT   LINE          COLUMN
NAME      TYPE    LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH     NO   ***     HEADING    ***
------------------------------------------------------------------------------------------------------------------------

SRC-TYPE   C           1        1                                               1       1

OCC-SEG    C           1       24                                              24      24

OCC-ID     C           2       23                                              23      23

SRC-ID     C           2       16                                              16      16

SRC-LOC    C          18        4                                               4       4

SRC-SEQ    C          22        3                                               3       3
```

```
                         DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                           FILE DEFINITION - EDA4MSTA                                       PAGE 4


                          ******************************
                          *     SEGMENT  4, LEVEL 2    *
                          *   SEGMENT NAME = CROSSREF  *
                          ******************************

COUNT FIELD FOR SEGMENT = NO-XREF                                    KEY FIELD 1 = XREF       TYPE = C   LENGTH = 55
SEGMENT SIZE = 55
NUMBER OF FIELDS IN SEGMENT = 1

------------------------------------------------------------------------------------------------------------------------
FIELD   FIELD   FIELD    FIELD  FIELD  DEC    CNT FIELD EDIT CODES   EDIT   OUTPUT  LINE       COLUMN
NAME    TYPE   LOCATION LENGTH RNDING PLACES  FOR SGMT  ( ) ( ) ( )  LENGTH WIDTH   NO   ***   HEADING     ***
------------------------------------------------------------------------------------------------------------------------

XREF     C        1       55                                           55     55
```

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```
                    DETAILED GLOSSARY BY LOCATION FOR                              MAR 31, 1979
                      FILE DEFINITION - EDA4MSTA                                   PAGE 5

                    ******************************
                    *     SEGMENT  5, LEVEL 2    *
                    *   SEGMENT NAME = KP        *
                    ******************************

COUNT FIELD FOR SEGMENT = NO-KP                          KEY FIELD 1 = KEYPHRAS   TYPE = C   LENGTH = 30
SEGMENT SIZE = 30
NUMBER OF FIELDS IN SEGMENT = 1

------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD  FIELD  DEC    CNT FIELD EDIT CODES   EDIT   OUTPUT  LINE       COLUMN
NAME     TYPE   LOCATION LENGTH RNDING PLACES FOR SGMT  ( ) ( ) ( )  LENGTH  WIDTH   NO   ***   HEADING      ***
------------------------------------------------------------------------------------------------------------------

KEYPHRAS  C         1      30                                         30      30
```

FILE AND TRANSACTION DEFINITIONS

RELATED TO

DEFINITIONS

```
                                   DETAILED GLOSSARY BY LOCATION FOR                              MAR 31, 1979
                                     FILE DEFINITION - EDA4MDEF                                   PAGE 1

FILE IDENTIFICATION =                                                           RECORD FORMAT = VARIABLE ISAM BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                                  RECORD SIZE = 1058
NUMBER OF FIELDS IN FILE = 11                                                   BLOCK SIZE = 1066


                                   ******************************
                                   *     SEGMENT  1, LEVEL 1    *
                                   ******************************

SEGMENT OCCURS N TIMES = 1                                            KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 87
NUMBER OF FIELDS IN SEGMENT = 11

----------------------------------------------------------------------------------------------------------------------
FIELD     FIELD   FIELD     FIELD   FIELD     DEC    CNT FIELD  EDIT CODES      EDIT   OUTPUT   LINE         COLUMN
NAME      TYPE   LOCATION   LENGTH  RNDING   PLACES  FOR SGMT   ( ) ( ) ( )    LENGTH  WIDTH     NO   ***    HEADING    ***
----------------------------------------------------------------------------------------------------------------------

NULL        C          1        1                                                  1       1

OCC-ID      C          2       23                                                 23      23

SRC-ID      C          2       16                                                 16      16

SRC-LOC     C         18        4                                                  4       4

SRC-SEQ     C         22        3                                                  3       3

STATUS      F         25        1                                                  1       1

LEGISLAT    F         26        1                                                  1       1

DEF-SEQ     F         27        1                                                  2       2

PREFERD     F         28        1                                                  1       1

SCOPE-NT    C         29       55                                                 55      55

DEFINITN    V         84      970                                                 80      80
```

```
                                    GLOSSARY BY LEVEL NUMBER FOR                                  MAR 31, 1979
                                    TRANSACTION GROUP - EDA4DEFU                                  PAGE 1

MASTER FILE NAME = EDA4MDEF                                                      RECORD FORMAT = FIXED BLOCKED
NUMBER OF IDENTIFIERS IN GROUP = 6                                               RECORD SIZE = 80
NUMBER OF ACTIONS IN GROUP = 10                                                  BLOCK SIZE = 2480


                                 **************************************
                                 *   1  OF  6  IDENTIFIERS IN GROUP   *
                                 **************************************

**********    ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (SD)
*SD      *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                       IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD   DECIMAL   ACTION   LEVEL              MINIMUM                        MAXIMUM
FIELD    TYPE    LOCATION   LENGTH   PLACES     CODE    NUMBER              VALUE                          VALUE
------------------------------------------------------------------------------------------------------------------------

OCC-ID    C           3       23                 M         1
```

```
                                   ***************************************
                                   *   2  OF  6  IDENTIFIERS IN GROUP    *
                                   ***************************************

**********    ACTIONS IN IDENTIFIER = 1                  IDENTIFIER ONE = (LD)
*LD      *    DEFAULT CREATE = NO                        IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                        IDENTIFIER LENGTH = 2
                                                         IDENTIFIED IF EQUAL

----------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD      FIELD    DECIMAL    ACTION   LEVEL              MINIMUM                        MAXIMUM
FIELD    TYPE     LOCATION    LENGTH   PLACES      CODE    NUMBER              VALUE                          VALUE
----------------------------------------------------------------------------------------------------------------------------

OCC-ID    C            3        23                  M         1
```

```
                                    GLOSSARY BY LEVEL NUMBER FOR                                   MAR 31, 1979
                                    TRANSACTION GROUP - EDA4DEFU                                   PAGE 3


                                 ****************************************
                                 *  3  OF  6  IDENTIFIERS IN GROUP      *
                                 ****************************************

**********     ACTIONS IN IDENTIFIER = 4                 IDENTIFIER ONE = (MF)
*MF      *     DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********     DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                         IDENTIFIED IF EQUAL

--------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA..........
FILE     FIELD      FIELD      FIELD    DECIMAL    ACTION    LEVEL           MINIMUM                         MAXIMUM
FIELD    TYPE      LOCATION   LENGTH    PLACES      CODE     NUMBER           VALUE                           VALUE
--------------------------------------------------------------------------------------------------------------------

OCC-ID     C             3       23                  M          1

STATUS     C            26        1                  R          1

DEF-SEQ    C            27        2                  R          1

PREFERD    C            29        1                  R          1
```

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```
                                         GLOSSARY BY LEVEL NUMBER FOR                          MAR 31, 1979
                                         TRANSACTION GROUP - EDA4DEFU                          PAGE 4



                                     *****************************************
                                     *   4  OF  6  IDENTIFIERS IN GROUP      *
                                     *****************************************

**********    ACTIONS IN IDENTIFIER = 2                 IDENTIFIER ONE = (SN)
*SN      *    DEFAULT CREATE = NO                       IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                       IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

---------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA..........
FILE     FIELD     FIELD     FIELD    DECIMAL    ACTION   LEVEL            MINIMUM                          MAXIMUM
FIELD    TYPE     LOCATION   LENGTH   PLACES      CODE    NUMBER            VALUE                            VALUE
---------------------------------------------------------------------------------------------------------------------

OCC-ID    C            3       23                  M         1

SCOPE-NT  C           26       55                  P         1
```

353

354

```
                                     ****************************************
                                     *   5  OF  6  IDENTIFIERS IN GROUP     *
                                     ****************************************

**********    ACTIONS IN IDENTIFIER = 1              IDENTIFIER ONE = (RR)
*RR      *    DEFAULT CREATE = NO                    IDENTIFIER LOCATION = 1
**********    DEFAULT INSERT = NO                    IDENTIFIER LENGTH = 2
                                                     IDENTIFIED IF EQUAL

------------------------------------------------------------------------------------------------------------------------
MASTER   ...........TRANSACTION DATA...........
FILE     FIELD     FIELD     FIELD    DECIMAL   ACTION   LEVEL          MINIMUM                         MAXIMUM
FIELD    TYPE    LOCATION    LENGTH   PLACES     CODE    NUMBER          VALUE                           VALUE
------------------------------------------------------------------------------------------------------------------------

OCC-ID    C           3        23                 M        1
```

6

```
                                        GLOSSARY BY LEVEL NUMBER FOR                                MAR 31, 1979
                                        TRANSACTION GROUP - EDA4DEFU                                PAGE 6


                                    ***************************************
                                    *   6  OF  6  IDENTIFIERS IN GROUP    *
                                    ***************************************

***********    ACTIONS IN IDENTIFIER = 1                IDENTIFIER ONE = (DD)
*DD       *    DEFAULT CREATE = NO                      IDENTIFIER LOCATION = 1
***********    DEFAULT INSERT = NO                      IDENTIFIER LENGTH = 2
                                                        IDENTIFIED IF EQUAL

-------------------------------------------------------------------------------------------------------------------
MASTER  ...........TRANSACTION DATA...........
FILE    FIELD     FIELD     FIELD    DECIMAL   ACTION   LEVEL             MINIMUM                    MAXIMUM
FIELD   TYPE    LOCATION   LENGTH    PLACES     CODE    NUMBER             VALUE                      VALUE
-------------------------------------------------------------------------------------------------------------------

OCC-ID   C             3       23                D         1
```

```
                                   DETAILED GLOSSARY BY LOCATION FOR                                     MAR 31, 1979
                                     FILE DEFINITION - EDA4TRNE                                          PAGE 1

FILE IDENTIFICATION =                                                         RECORD FORMAT = FIXED BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                                RECORD SIZE = 80
NUMBER OF FIELDS IN FILE = 12                                                 BLOCK SIZE = 2480


                                   ******************************
                                   *     SEGMENT  1, LEVEL 1    *
                                   ******************************

SEGMENT OCCURS N TIMES = 1                                            KEY FIELD 1 = OCC-ID     TYPE = C   LENGTH = 23
SEGMENT SIZE = 80                                                     KEY FIELD 2 = TRAN-ID    TYPE = C   LENGTH = 2
NUMBER OF FIELDS IN SEGMENT = 12                                      KEY FIELD 3 = CARD-NO    TYPE = C   LENGTH = 2

----------------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD   FIELD    DEC    CNT FIELD  EDIT CODES   EDIT    OUTPUT   LINE          COLUMN
NAME     TYPE   LOCATION  LENGTH  RNDING  PLACES  FOR SGMT   ( ) ( ) ( )  LENGTH   WIDTH    NO   ***     HEADING      ***
----------------------------------------------------------------------------------------------------------------------

TRAN-ID   C          1       2                                              2        2

OCC-ID    C          3      23                                             23       23

SRC-ID    C          3      16                                             16       16

SRC-LOC   C         19       4                                              4        4

SRC-SEQ   C         23       3                                              3        3

CARD-NO   C         26       2                                              2        2

SCOPE-NT  C         26      55                                             55       55

STATUS    C         26       1                                              1        1

NEW-OCC   C         26      23                                             23       23

DEF-SEQ   C         27       2                                              2        2

DEF-SEG   C         28      53                                             53       53

PREFERD   C         29       1                                              1        1
```

102 - DEFINITIONS

6 7

```
                              DETAILED GLOSSARY BY LOCATION FOR                                  MAR 31, 1979
                                FILE DEFINITION - EDA4GLSS                                       PAGE 1

FILE IDENTIFICATION =                                                  RECORD FORMAT = VARIABLE BLOCKED
NUMBER OF SEGMENTS IN FILE = 1                                         RECORD SIZE = 4122
NUMBER OF FIELDS IN FILE = 10                                          BLOCK SIZE = 4130


                              ********************************
                              *     SEGMENT  1, LEVEL 1      *
                              ********************************

SEGMENT OCCURS N TIMES = 1                                  KEY FIELD 1 = CODE        TYPE = C   LENGTH = 30
SEGMENT SIZE = 59                                           KEY FIELD 2 = ALPHKEY     TYPE = F   LENGTH = 4
NUMBER OF FIELDS IN SEGMENT = 10                            KEY FIELD 3 = REC-TYPE    TYPE = C   LENGTH = 1
                                                            KEY FIELD 4 = DEF-SEQ     TYPE = F   LENGTH = 1
                                                            KEY FIELD 5 = PREFERD     TYPE = F   LENGTH = 1
                                                            KEY FIELD 6 = STATUS      TYPE = F   LENGTH = 1

-----------------------------------------------------------------------------------------------------------------
FIELD    FIELD   FIELD    FIELD  FIELD   DEC    CNT FIELD EDIT CODES   EDIT   OUTPUT  LINE        COLUMN
NAME     TYPE   LOCATION  LENGTH RNDING  PLACES FOR SGMT  ( ) ( ) ( )  LENGTH WIDTH    NO   ***   HEADING     ***
-----------------------------------------------------------------------------------------------------------------

CODE      C          1      30                                           30     30

ALPHKEY   F         31       4                                            5      5

REC-TYPE  C         35       1                                            1      1

DEF-SEQ   F         36       1                                            2      2

TERM-ID   F         36       4                                            5      5

PREFERD   F         37       1                                            1      1

STATUS    F         38       1                                            1      1

SRC-ID    C         39      16                                           16     16

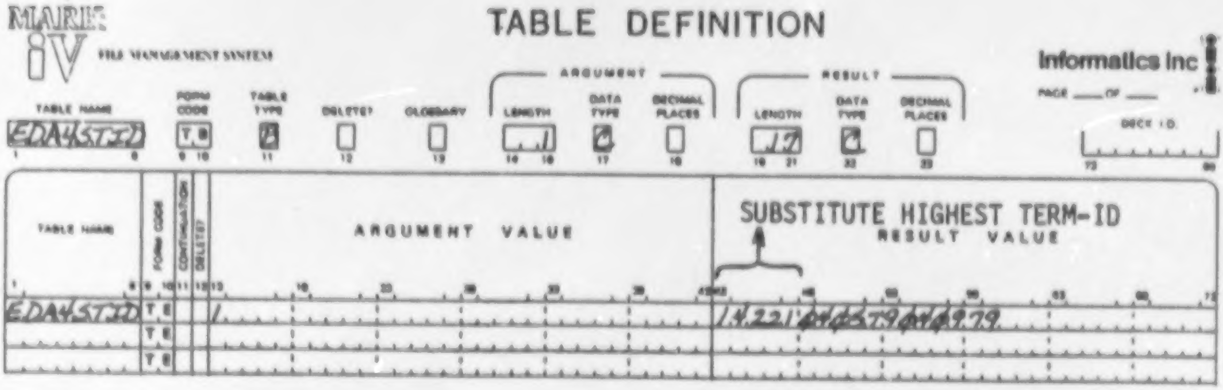
SRC-TYPE  C         55       1                                            1      1

DATA-OUT  V         56    1100                                           50     50
```

APPENDIX H: MARK IV TABLES

Four Mark IV binary tables are used in the Thesaurus/Glossary System. Two of these tables are permanent and must exist prior to execution of the procedures that use them. The other two are built during execution of the procedure in which they are used.

EDA4STID is the control table used to ensure uniqueness of the term identifier used as a key for the source term file. It consists of a single record whose argument is the character "1." The result field contains the highest term identifier currently in use, the date of the last update, and the date of the prior update. The term identifier is right justified in the first five characters of the result field.. The dates take the form mmddyy. The following Mark IV entries are used to built this table:



MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

Informatics Inc

PAGE ___ OF ___

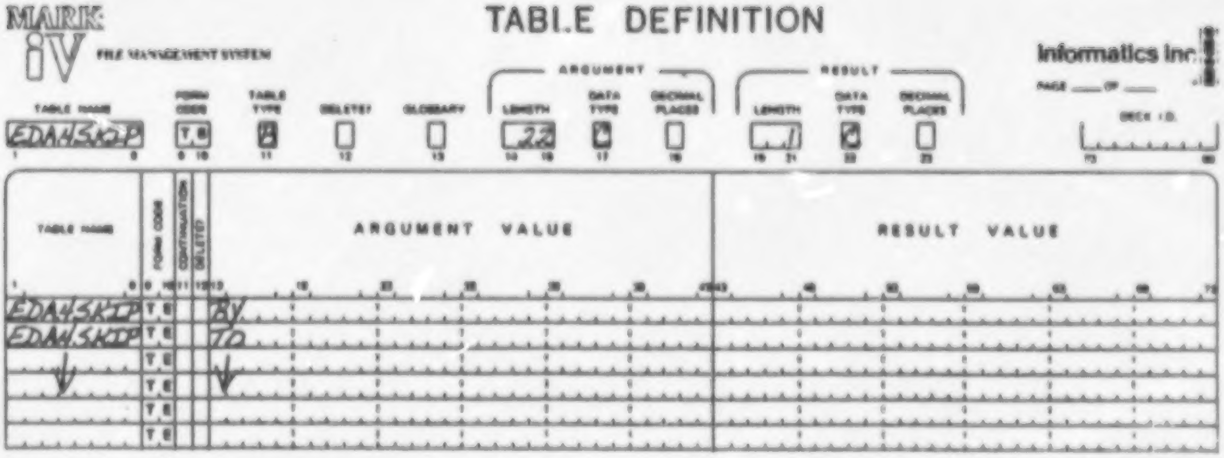
TABLE NAME	FORM CODE	TABLE TYPE	DELETE?	GLOSSARY	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
EDA4STID	TE	[illegible]	☐	☐	1	C	☐	17	C	☐	

SUBSTITUTE HIGHEST TERM-ID

TABLE NAME	FORM CODE	CONTINUATION	DELETE?	ARGUMENT VALUE	RESULT VALUE
EDA4STID	TE			1	14221040579040979
	TE				
	TE				

The table entry is updated (replaced) during each execution of either procedure EDAPIS or EDAPSMIS.

EDA4SKIP is used as a stop list when printing the Thesaurus Index and the Glossary Index to suppress unwanted permutations. The following example form illustrates the types of entries used to build this table. A full listing of the contents of the table can be obtained by using Mark IV catalog maintenance.



MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

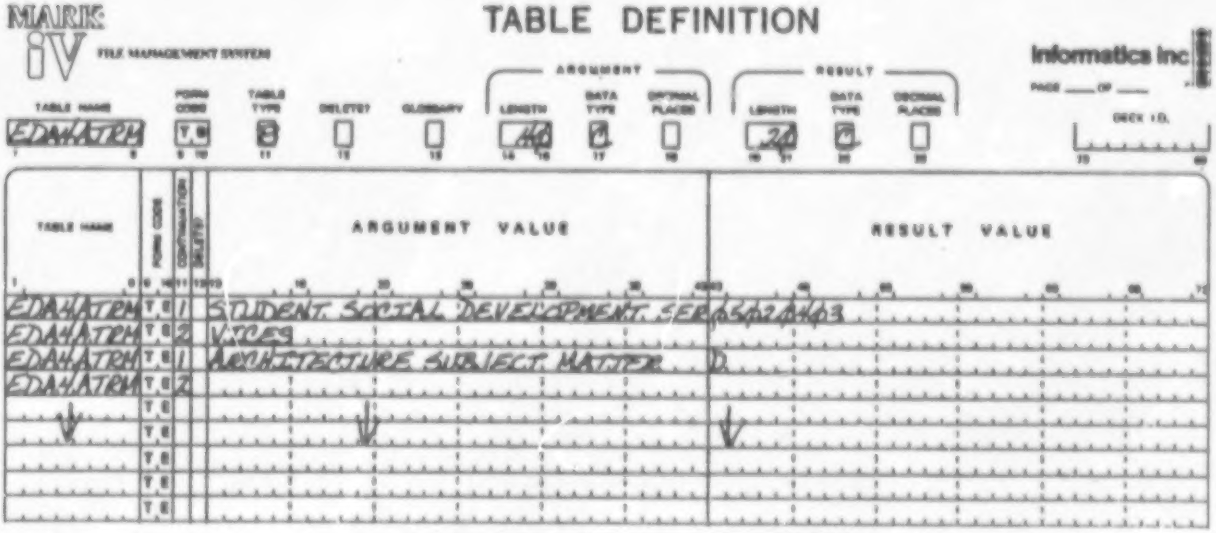
Informatics Inc

PAGE ___ OF ___

TABLE NAME	FORM CODE	TABLE TYPE	DELETE?	GLOSSARY	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
EDA4SKIP	TE	B	☐	☐	22	C	☐	1	C	☐	

TABLE NAME	FORM CODE	CONTINUATION	DELETED?	ARGUMENT VALUE	RESULT VALUE
EDA4SKIP	TE			BY	
EDA4SKIP	TE			TO	
	TE				
↓	TE			↓	
	TE				
	TE				

EDA4ATRM is built (or replaced) by the classification schedules update procedure (EDAPUC) in order to reconcile the thesaurus file to changes made in the classification schedules. Arguments consist of controlled vocabulary terms that have been deleted or have had spelling changes. The result field contains the character "D" for deleted terms or the term's classification code for spelling changes. The following example form illustrates the types of entries the procedure uses to build this table.



MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

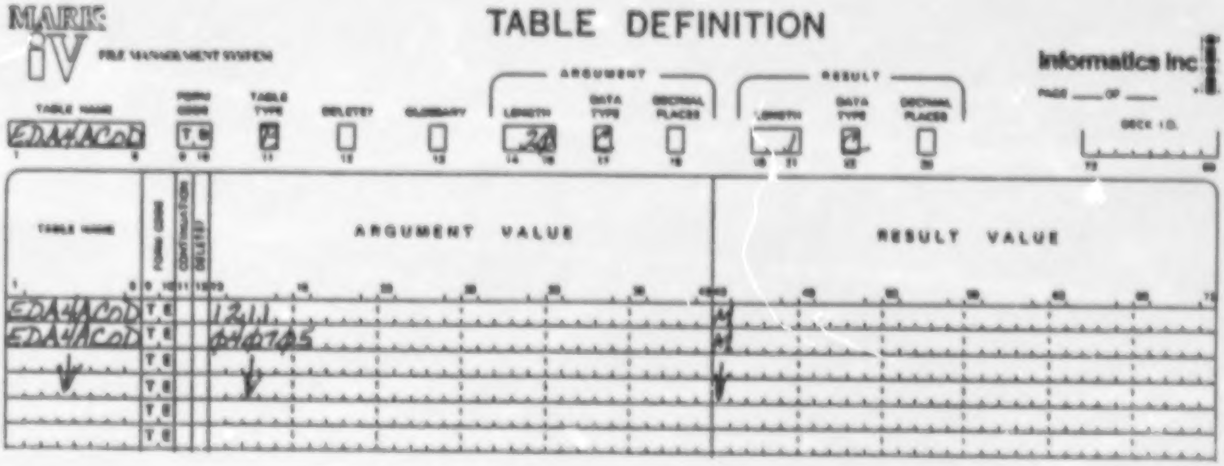
Informatics Inc

PAGE ___ OF ___

TABLE NAME	FORM CODE	TABLE TYPE	DELETE?	GLOSSARY	ARGUMENT LENGTH	ARGUMENT DATA TYPE	ARGUMENT DECIMAL PLACES	RESULT LENGTH	RESULT DATA TYPE	RESULT DECIMAL PLACES	DECK I.D.
EDA4ATRM	TE	B	☐	☐	40	C	☐	20	C	☐	

TABLE NAME	FORM CODE	CONTINUATION	DELETED?	ARGUMENT VALUE	RESULT VALUE
EDA4ATRM	TE	1		STUDENT SOCIAL DEVELOPMENT SER	05020403
EDA4ATRM	TE	2		VICES	
EDA4ATRM	TE	1		ARCHITECTURE SUBJECT MATTER	D
EDA4ATRM	TE	2			
	TE				
↓	TE			↓	↓
	TE				
	TE				
	TE				

EDA4COD is also built (or replaced) by procedure EDAPUC and is used to reconcile the glossary structure codes contained in the source term file to classification codes that have been deleted or changed. The argument field contains a deleted or changed classification code. The result field contains the character "M." The following example form illustrates the types of entries the procedure uses to build this table.



MARK IV FILE MANAGEMENT SYSTEM

TABLE DEFINITION

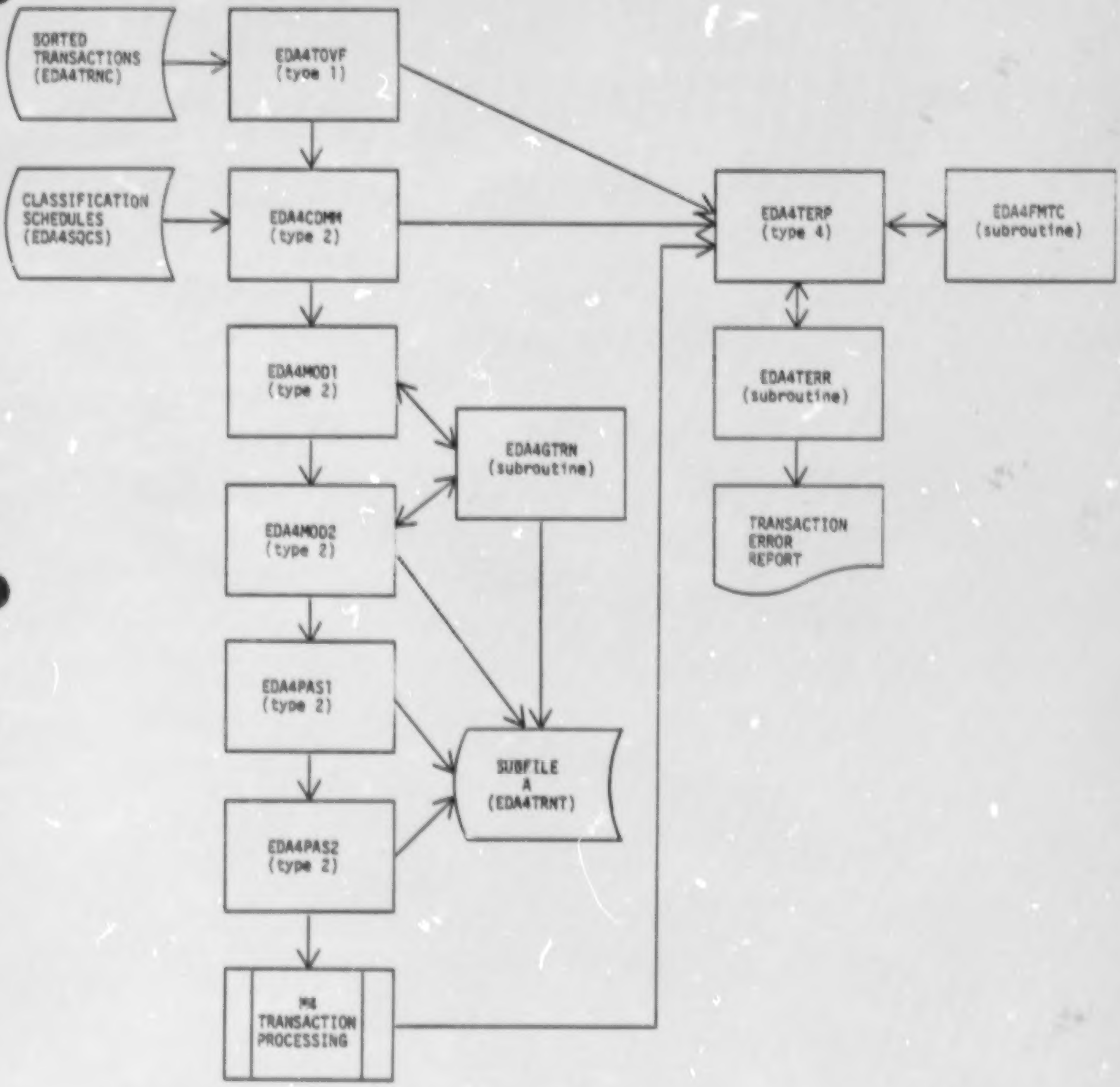
Informatics Inc

PAGE ___ OF ___

TABLE NAME: EDA4ACOD
FORM CODE: TC
TABLE TYPE: [illegible]
DELETE?: ☐
GLOSSARY: ☐
ARGUMENT LENGTH: 20
ARGUMENT DATA TYPE: C
ARGUMENT DECIMAL PLACES: ☐
RESULT LENGTH: 1
RESULT DATA TYPE: C
RESULT DECIMAL PLACES: ☐
DECK I.D.:

TABLE NAME	FORM CODE	CONTINUATION	DELETED	ARGUMENT VALUE	RESULT VALUE
EDA4ACOD	TC			1211	M
EDA4ACOD	TC			040705	M
↓	TC			↓	↓
	TC				
	TC				
	TC				

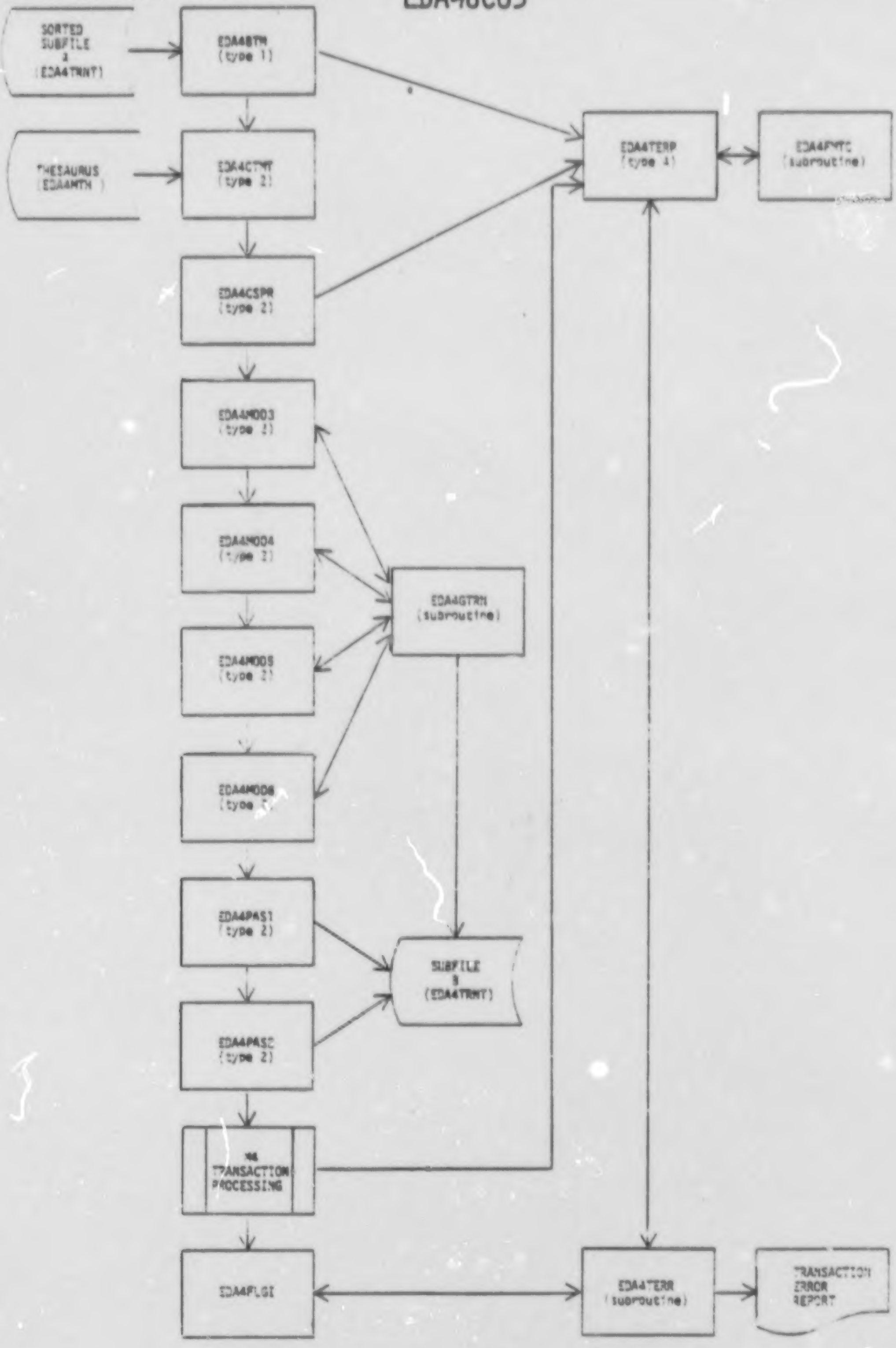
EDA4UC03


SORTED TRANSACTIONS (EDA4TRNC)
EDA4TOVF (type 1)
CLASSIFICATION SCHEDULES (EDA4SQCS)
EDA4COMM (type 2)
EDA4MOD1 (type 2)
EDA4GTRN (subroutine)
EDA4MOD2 (type 2)
EDA4PAS1 (type 2)
SUBFILE A (EDA4TRNT)
EDA4PAS2 (type 2)
TRANSACTION PROCESSING
EDA4TERP (type 4)
EDA4FMTC (subroutine)
EDA4TERR (subroutine)
TRANSACTION ERROR REPORT

Classification Schedules Update

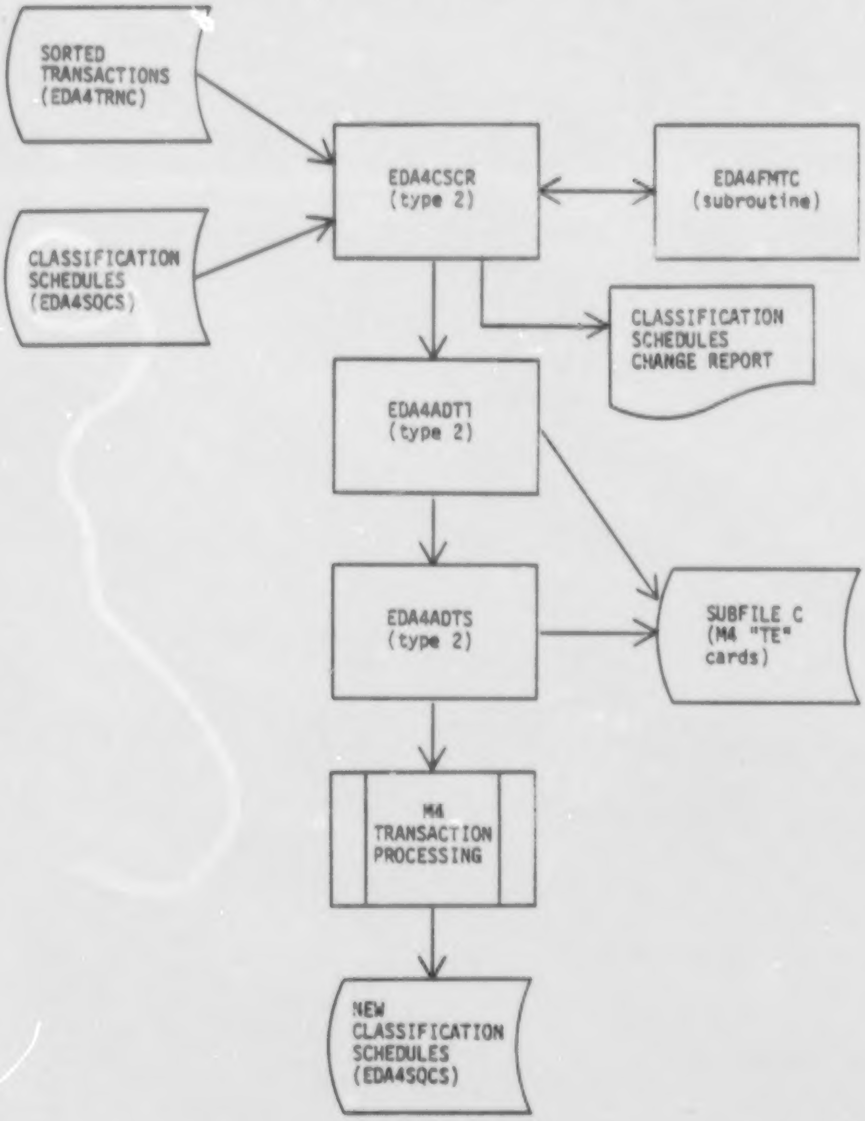
2 - REQUEST GROUPS

EDA4UC05

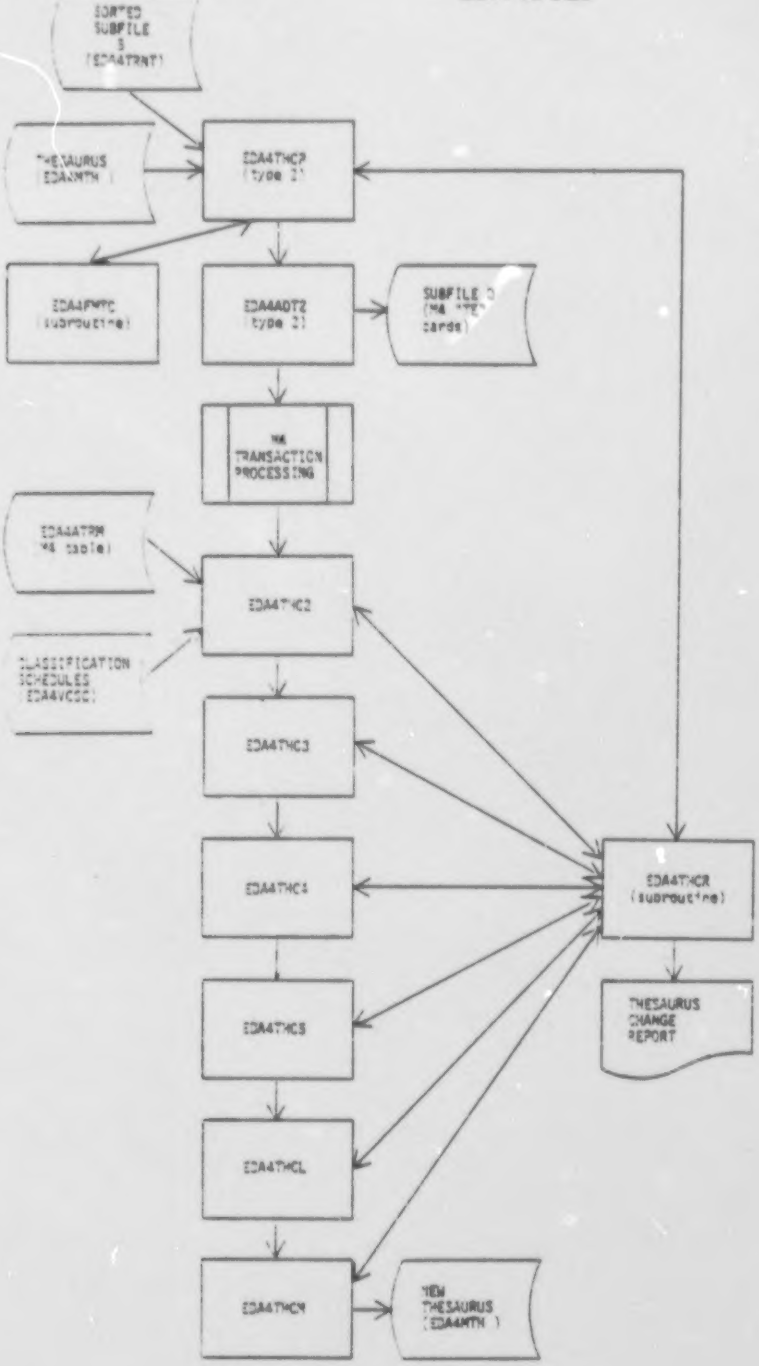

SORTED SUBFILE A (EDA4TRNT)
EDA4BTM (type 1)
THESAURUS (EDA4NTH)
EDA4CTMT (type 2)
EDA4CSPR (type 2)
EDA4MOD3 (type 2)
EDA4MOD4 (type 2)
EDA4MOD5 (type 2)
EDA4MOD6 (type 2)
EDA4PAS1 (type 2)
EDA4PAS2 (type 2)
MS TRANSACTION PROCESSING
EDA4FLGI
EDA4TERP (type 4)
EDA4FMTC (subroutine)
EDA4GTRN (subroutine)
SUBFILE B (EDA4TRNT)
EDA4TERR (subroutine)
TRANSACTION ERROR REPORT

CLASSIFICATION SCHEDULES UPDATE

EDA4UC06

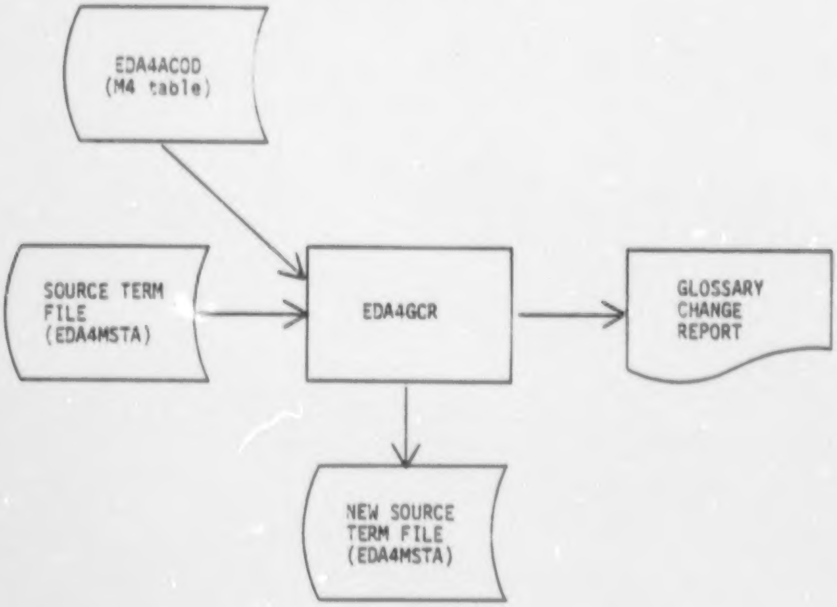

SORTED TRANSACTIONS (EDA4TRNC)
CLASSIFICATION SCHEDULES (EDA4SOCS)
EDA4CSCR (type 2)
EDA4FMTC (subroutine)
CLASSIFICATION SCHEDULES CHANGE REPORT
EDA4ADT1 (type 2)
EDA4ADTS (type 2)
SUBFILE C (M4 "TE" cards)
M4 TRANSACTION PROCESSING
NEW CLASSIFICATION SCHEDULES (EDA4SOCS)

CLASSIFICATION SCHEDULES UPDATE


SORTED SUBFILE 3 (EDA4TRNT)
THESAURUS (EDA4MTH)
EDA4THCP (type 2)
EDA4FMTC (subroutine)
EDA4ADT2 (type 2)
SUBFILE 3 (MA "TE" cards)
MA TRANSACTION PROCESSING
EDA4ATRM (MA table)
CLASSIFICATION SCHEDULES (EDA4VCSC)
EDA4THC2
EDA4THC3
EDA4THC4
EDA4THC5
EDA4THCL
EDA4THCM
NEW THESAURUS (EDA4MTH)
EDA4THCR (subroutine)
THESAURUS CHANGE REPORT

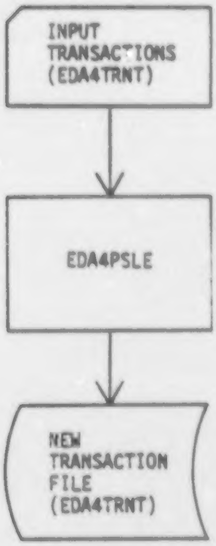
CLASSIFICATION SCHEDULES UPDATE

EDA4UC19
EDA4UC20


EDA4ACOD
(M4 table)
SOURCE TERM
FILE
(EDA4MSTA)
EDA4GCR
GLOSSARY
CHANGE
REPORT
NEW SOURCE
TERM FILE
(EDA4MSTA)

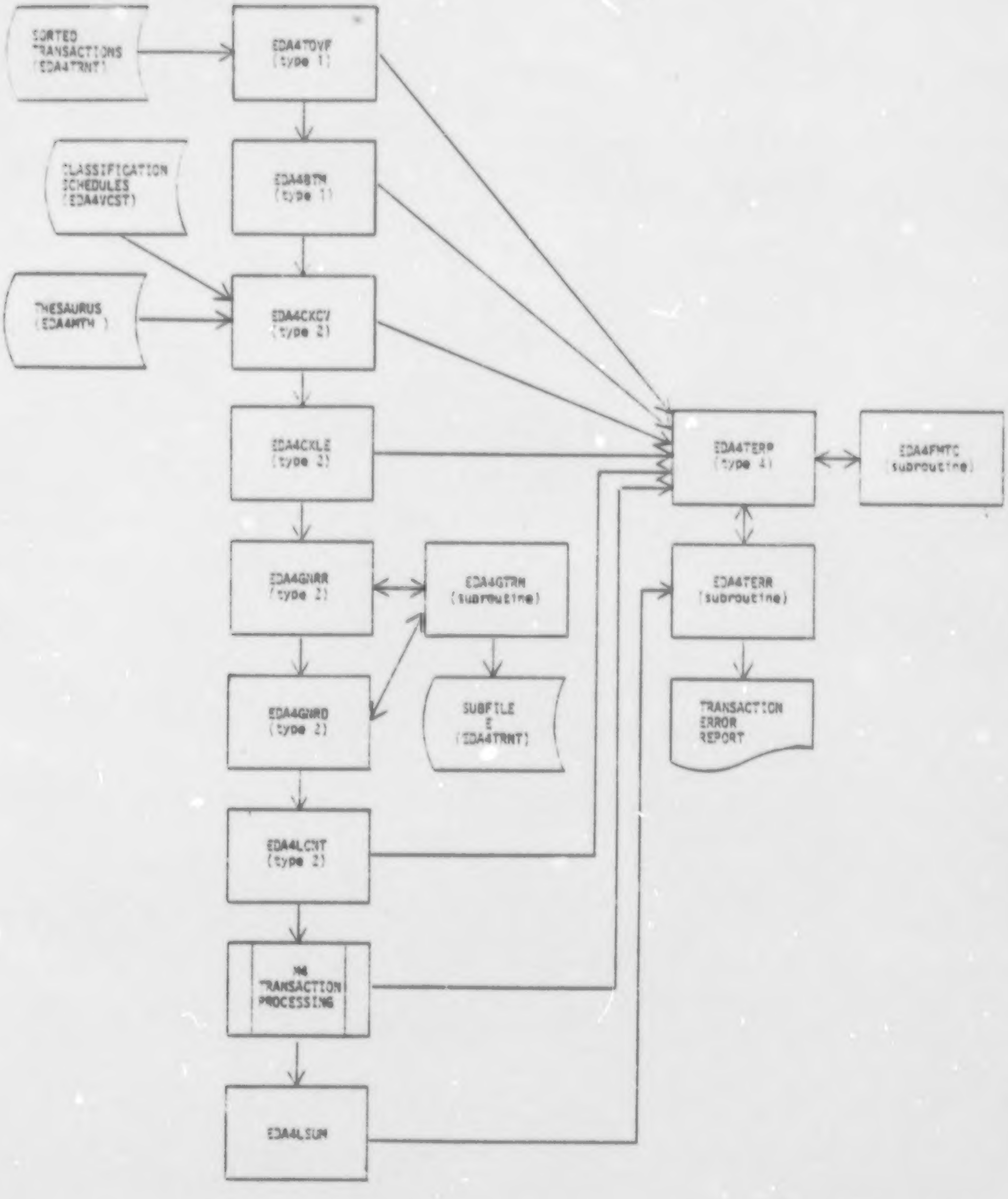
CLASSIFICATION SCHEDULES UPDATE

EDA4UT01


INPUT TRANSACTIONS (EDA4TRNT)
EDA4PSLE
NEW TRANSACTION FILE (EDA4TRNT)

THESAURUS UPDATE

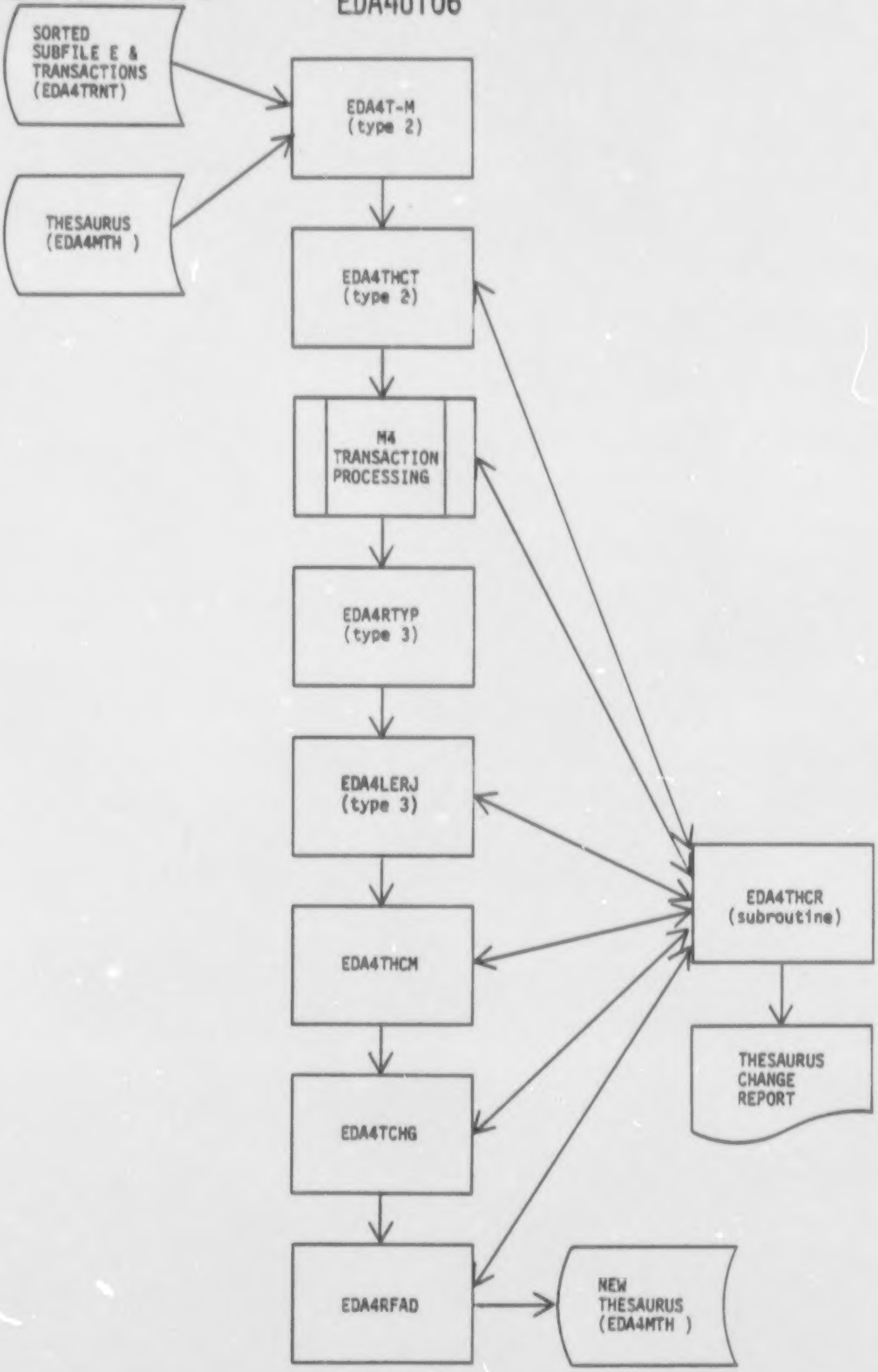
EDA4UT04


SORTED TRANSACTIONS (EDA4TRNT)
EDA4TOVF (type 1)
CLASSIFICATION SCHEDULES (EDA4VCST)
EDA4BTM (type 1)
THESAURUS (EDA4MTH)
EDA4CKCV (type 2)
EDA4CKLE (type 2)
EDA4TERP (type 4)
EDA4FMTC (subroutine)
EDA4GNRR (type 2)
EDA4GTRM (subroutine)
EDA4TERR (subroutine)
EDA4GNRD (type 2)
SUBFILE E (EDA4TRNT)
TRANSACTION ERROR REPORT
EDA4LCNT (type 2)
MB TRANSACTION PROCESSING
EDA4LSUM

THESAURUS UPDATE

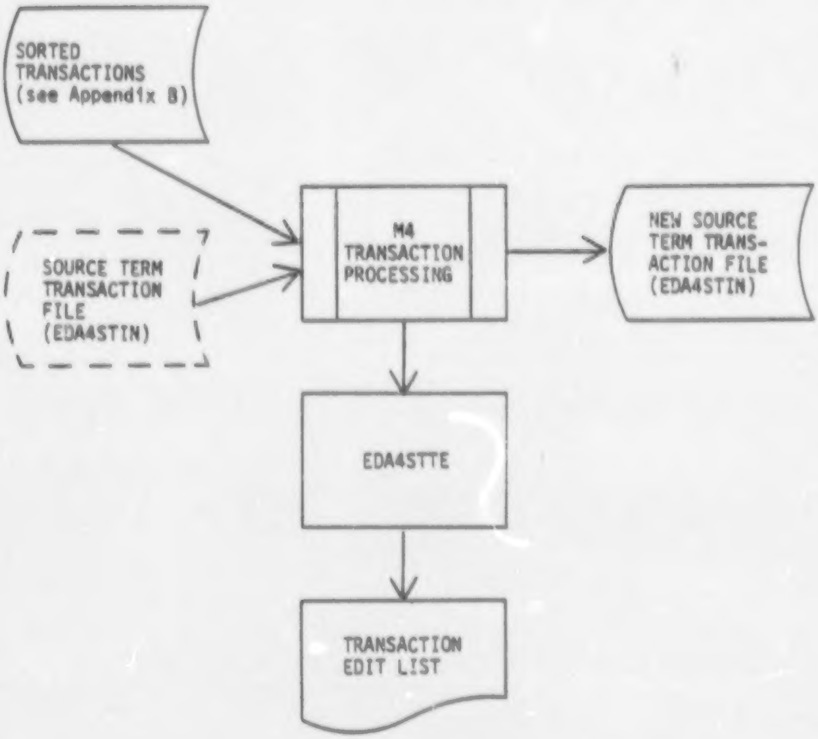
BEST COPY AVAILABLE

EDA4UT06


SORTED
SUBFILE E &
TRANSACTIONS
(EDA4TRNT)
THESAURUS
(EDA4MTH)
EDA4T-M
(type 2)
EDA4THCT
(type 2)
M4
TRANSACTION
PROCESSING
EDA4RTYP
(type 3)
EDA4LERJ
(type 3)
EDA4THCM
EDA4TCHG
EDA4RFAD
NEW
THESAURUS
(EDA4MTH)
EDA4THCR
(subroutine)
THESAURUS
CHANGE
REPORT

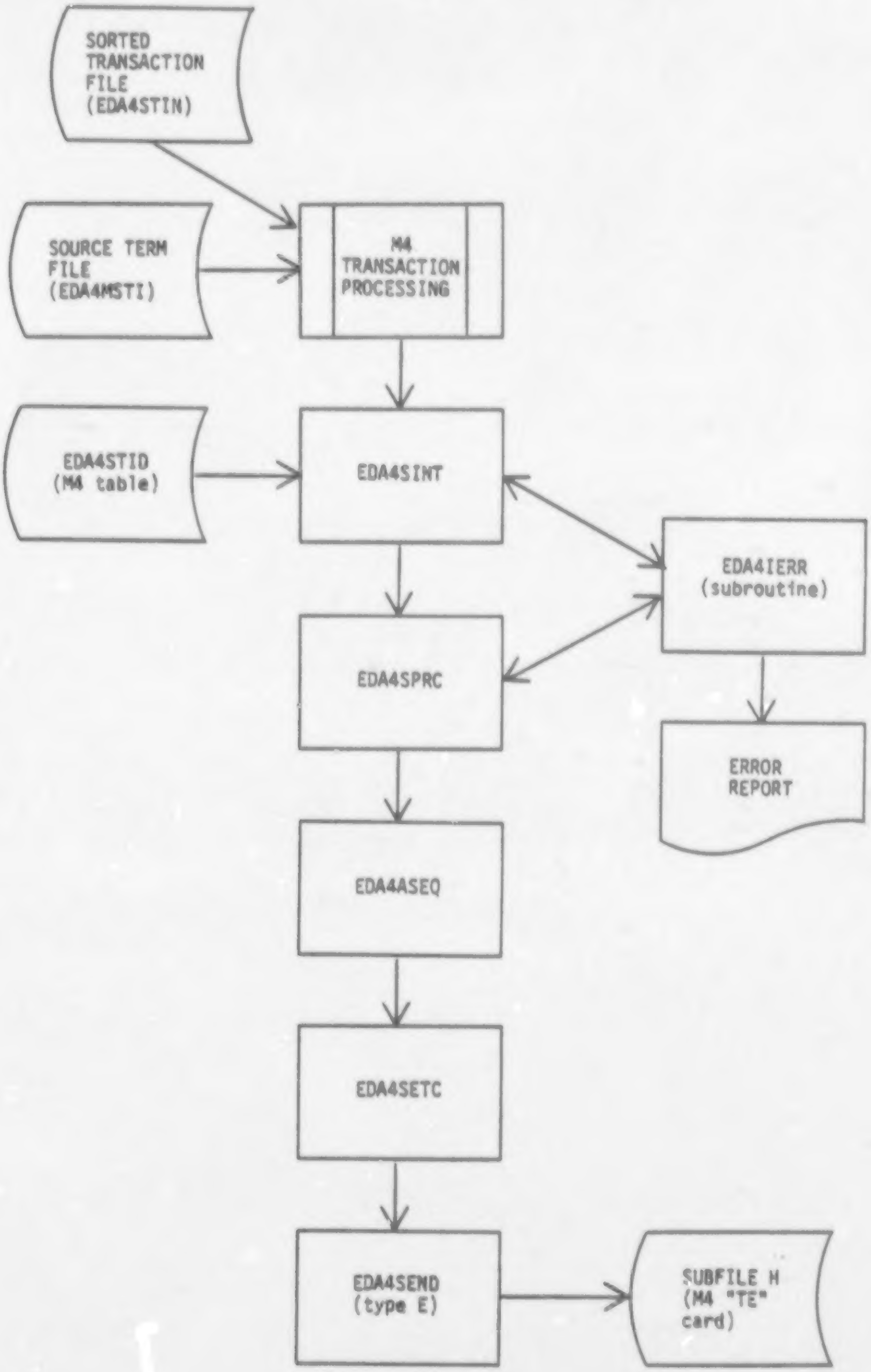
THESAURUS UPDATE

EDA4ES02


SORTED TRANSACTIONS (see Appendix B)
SOURCE TERM TRANSACTION FILE (EDA4STIN)
M4 TRANSACTION PROCESSING
NEW SOURCE TERM TRANSACTION FILE (EDA4STIN)
EDA4STTE
TRANSACTION EDIT LIST

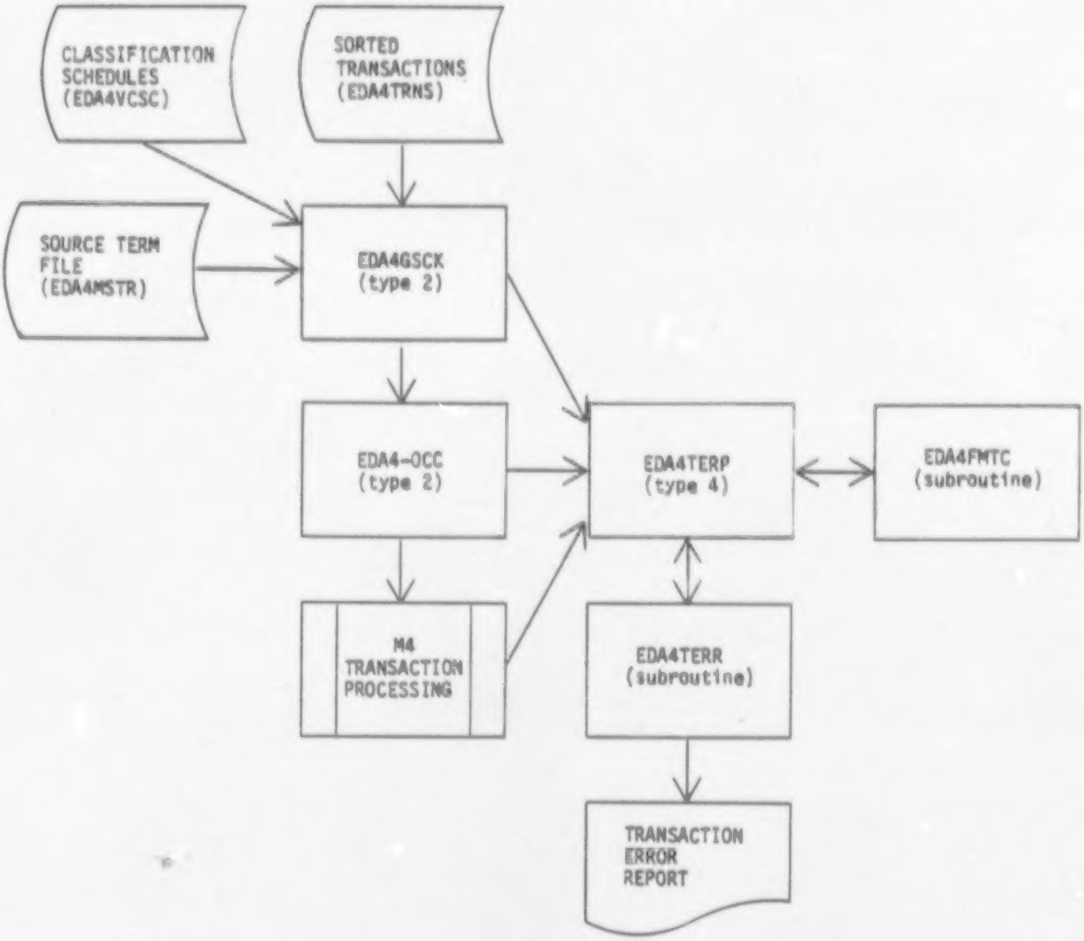
ADDING NEW OCCURRENCES:
SOURCE TERM TRANSACTION EDIT

EDA4IS02


SORTED TRANSACTION FILE (EDA4STIN)
SOURCE TERM FILE (EDA4MSTI)
M4 TRANSACTION PROCESSING
EDA4STID (M4 table)
EDA4SINT
EDA4IERR (subroutine)
EDA4SPRC
ERROR REPORT
EDA4ASEQ
EDA4SETC
EDA4SEND (type E)
SUBFILE H (M4 "TE" card)

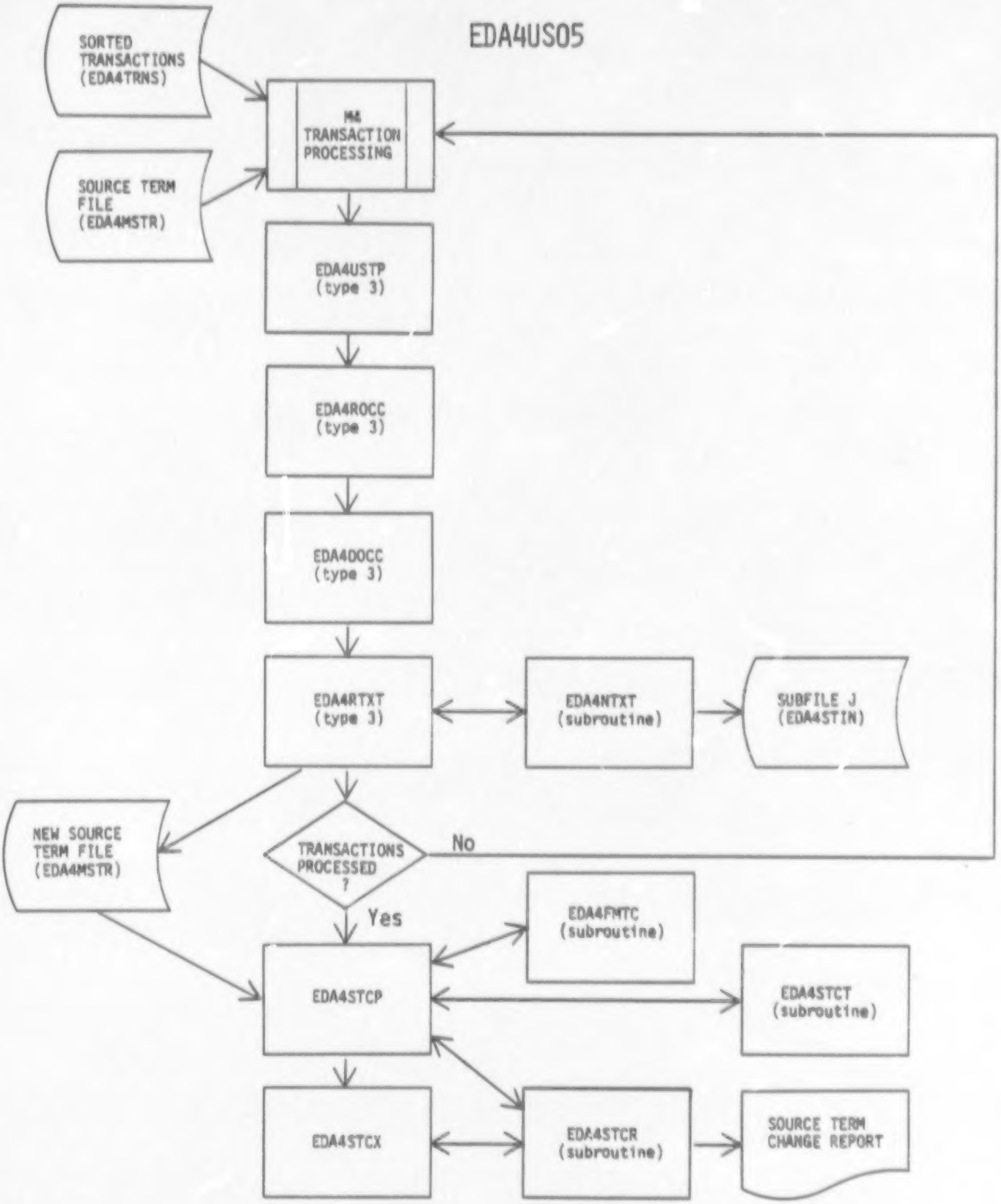
ADDING NEW OCCURRENCES:
SOURCE TERM ENTRY

EDA4US04


CLASSIFICATION SCHEDULES (EDA4VCSC)
SORTED TRANSACTIONS (EDA4TRNS)
SOURCE TERM FILE (EDA4MSTR)
EDA4GSCK (type 2)
EDA4-OCC (type 2)
EDA4TERP (type 4)
EDA4FMTC (subroutine)
M4 TRANSACTION PROCESSING
EDA4TERR (subroutine)
TRANSACTION ERROR REPORT

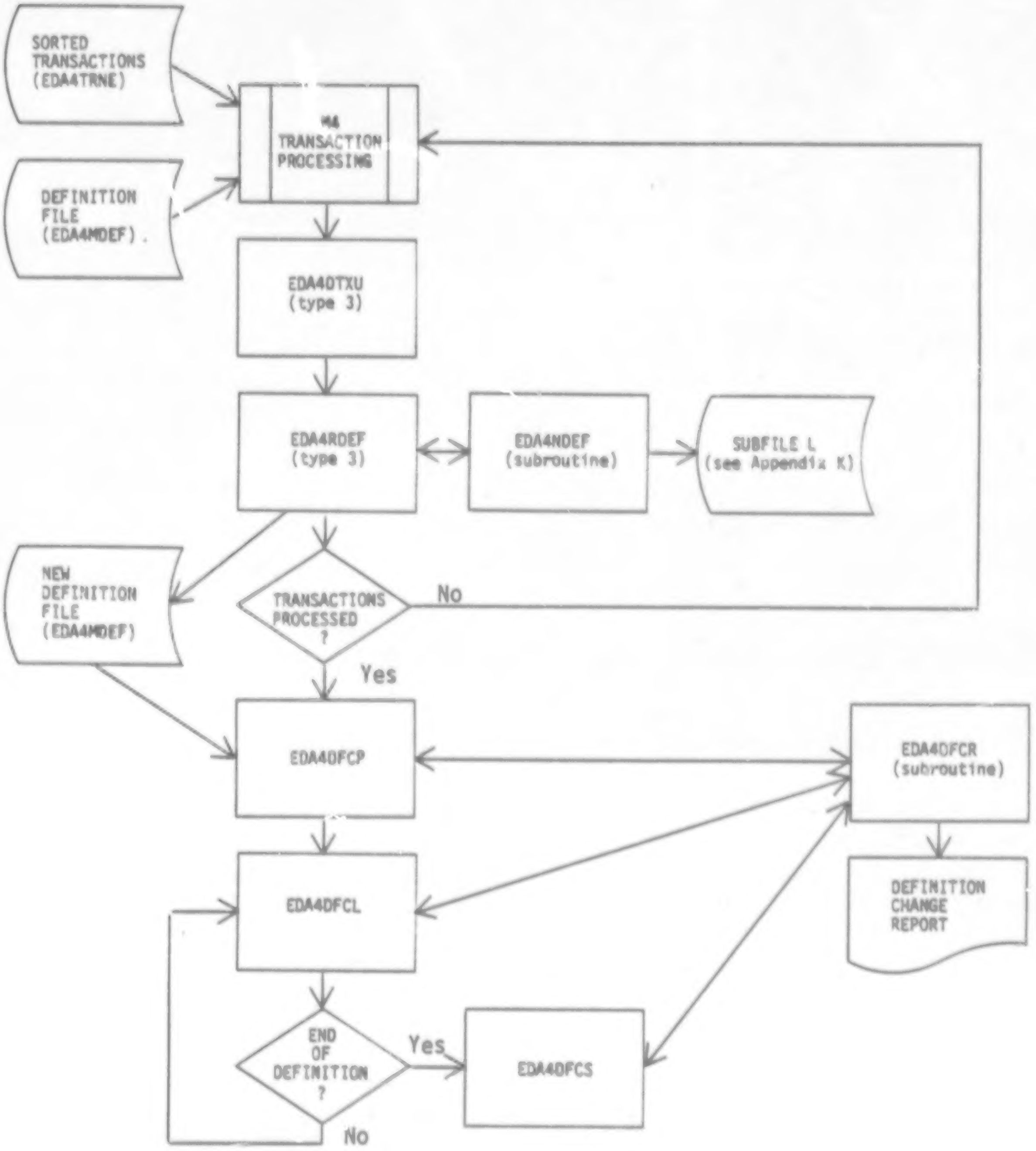
SOURCE TERM UPDATE

EDA4US05


SORTED TRANSACTIONS (EDA4TRNS)
SOURCE TERM FILE (EDA4MSTR)
M4 TRANSACTION PROCESSING
EDA4USTP (type 3)
EDA4ROCC (type 3)
EDA4DOCC (type 3)
EDA4RTXT (type 3)
EDA4NTXT (subroutine)
SUBFILE J (EDA4STIN)
NEW SOURCE TERM FILE (EDA4MSTR)
TRANSACTIONS PROCESSED ?
No
Yes
EDA4FMTC (subroutine)
EDA4STCP
EDA4STCT (subroutine)
EDA4STCX
EDA4STCR (subroutine)
SOURCE TERM CHANGE REPORT

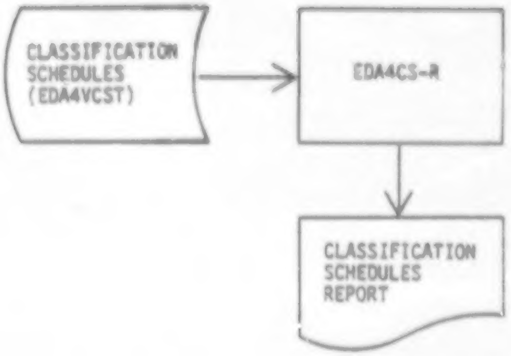
SOURCE TERM UPDATE

EDA4UD02


SORTED TRANSACTIONS (EDA4TRNE)
DEFINITION FILE (EDA4MDEF).
M4 TRANSACTION PROCESSING
EDA4DTXU (type 3)
EDA4RDEF (type 3)
EDA4NDEF (subroutine)
SUBFILE L (see Appendix K)
NEW DEFINITION FILE (EDA4MDEF)
TRANSACTIONS PROCESSED ?
No
Yes
EDA4DFCP
EDA4DFCR (subroutine)
DEFINITION CHANGE REPORT
EDA4DFCL
END OF DEFINITION ?
Yes
No
EDA4DFCS

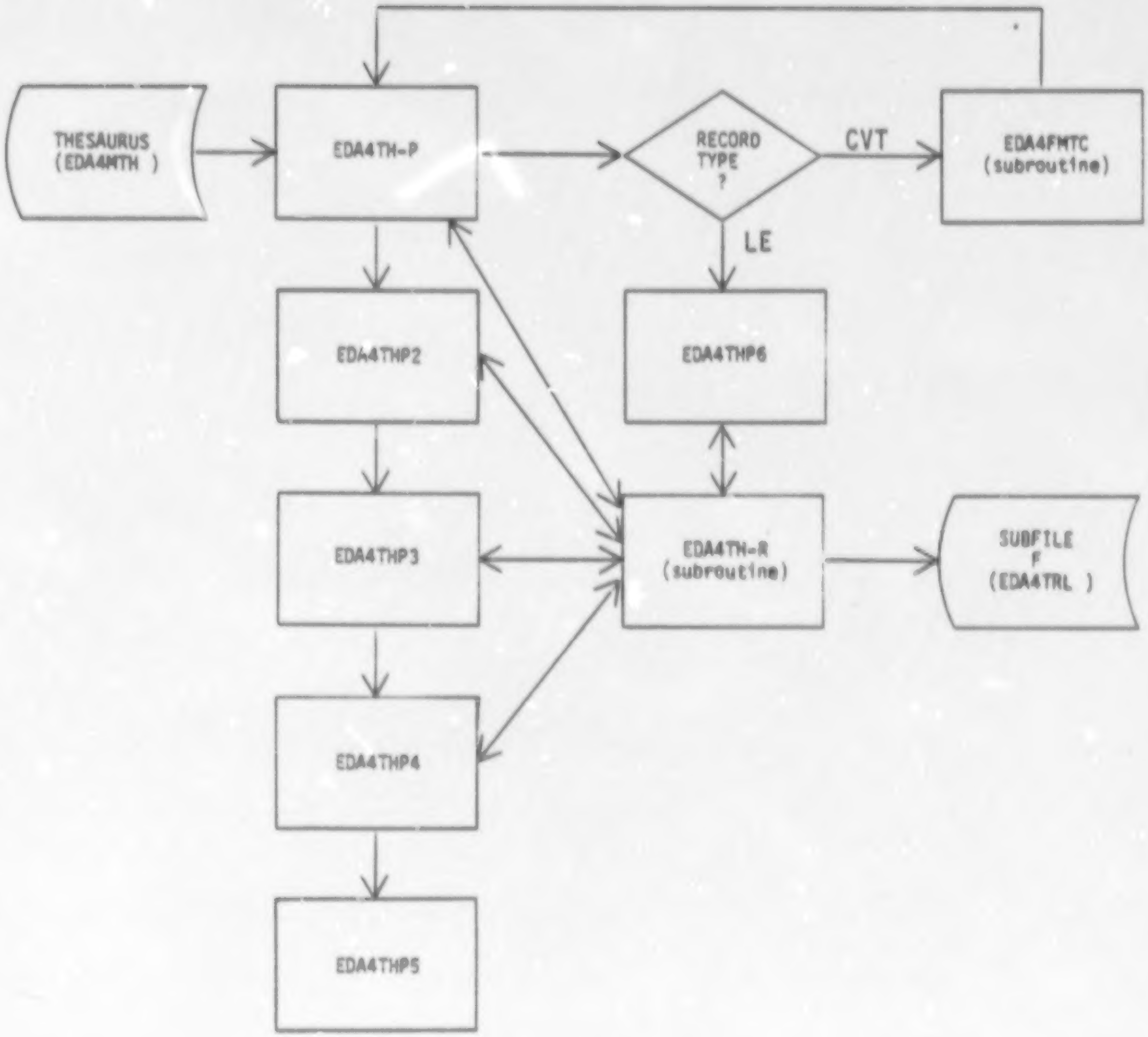
DEFINITION UPDATE

EDA4RC01


CLASSIFICATION SCHEDULES (EDA4VCST)
EDA4CS-R
CLASSIFICATION SCHEDULES REPORT

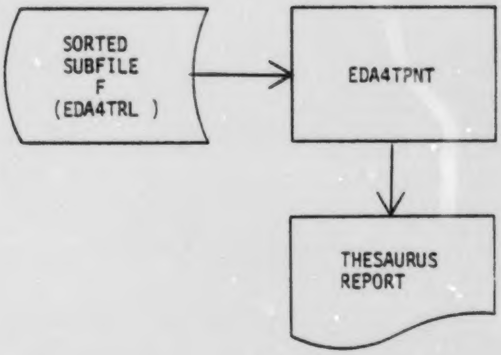
PRINT CLASSIFICATION SCHEDULES REPORT

EDA4RT01


THESAURUS
(EDA4MTH)
EDA4TH-P
RECORD
TYPE
?
CVT
EDA4FMTC
(subroutine)
LE
EDA4THP2
EDA4THP6
EDA4THP3
EDA4TH-R
(subroutine)
SUBFILE
F
(EDA4TRL)
EDA4THP4
EDA4THP5

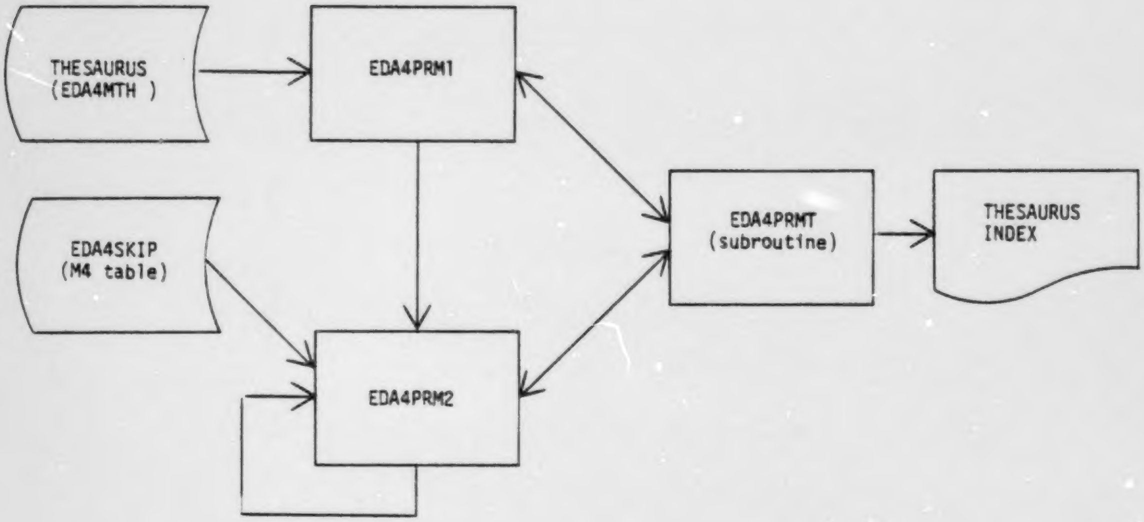
PRINT THESAURUS REPORT

EDA4RT03


SORTED
SUBFILE
F
(EDA4TRL)
EDA4TPNT
THESAURUS
REPORT

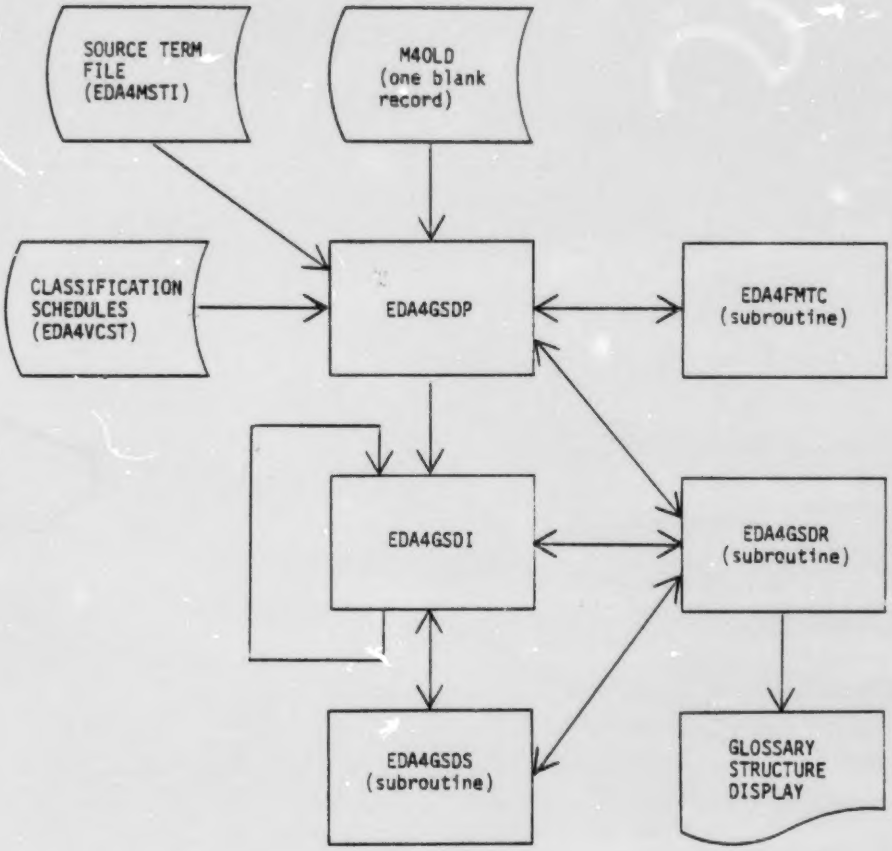
PRINT THESAURUS REPORT

EDA4RP01


THESAURUS
(EDA4MTH)
EDA4PRM1
EDA4SKIP
(M4 table)
EDA4PRMT
(subroutine)
THESAURUS
INDEX
EDA4PRM2

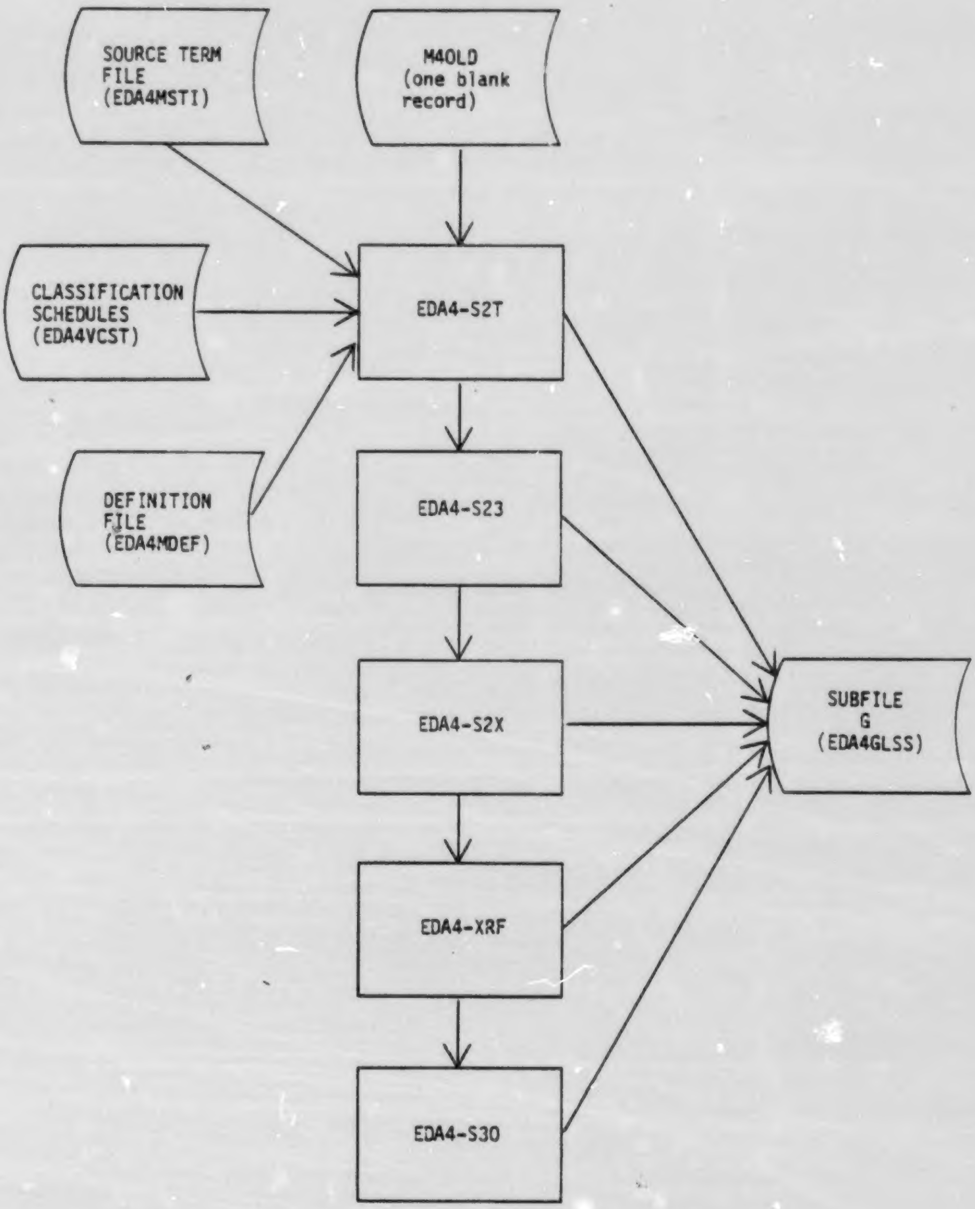
PRINT THESAURUS INDEX

EDA4RD01


SOURCE TERM FILE (EDA4MSTI)
M4OLD (one blank record)
CLASSIFICATION SCHEDULES (EDA4VCST)
EDA4GSDP
EDA4FMTC (subroutine)
EDA4GSDI
EDA4GSDR (subroutine)
EDA4GSDS (subroutine)
GLOSSARY STRUCTURE DISPLAY

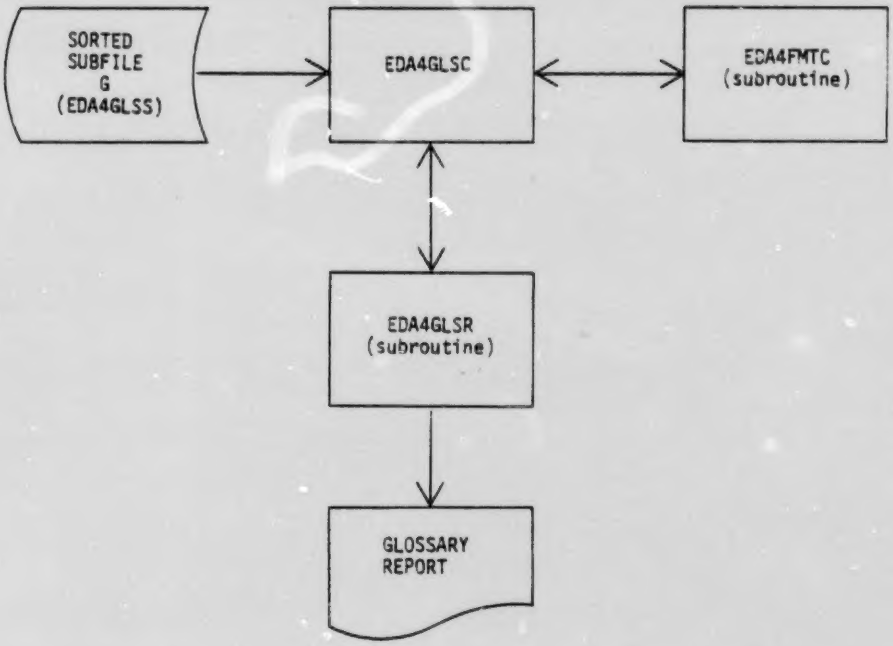
PRINT GLOSSARY STRUCTURE DISPLAY

EDA4RG01


SOURCE TERM FILE (EDA4MSTI)
M4OLD (one blank record)
CLASSIFICATION SCHEDULES (EDA4VCST)
DEFINITION FILE (EDA4MDEF)
EDA4-S2T
EDA4-S23
EDA4-S2X
EDA4-XRF
EDA4-S30
SUBFILE G (EDA4GLSS)

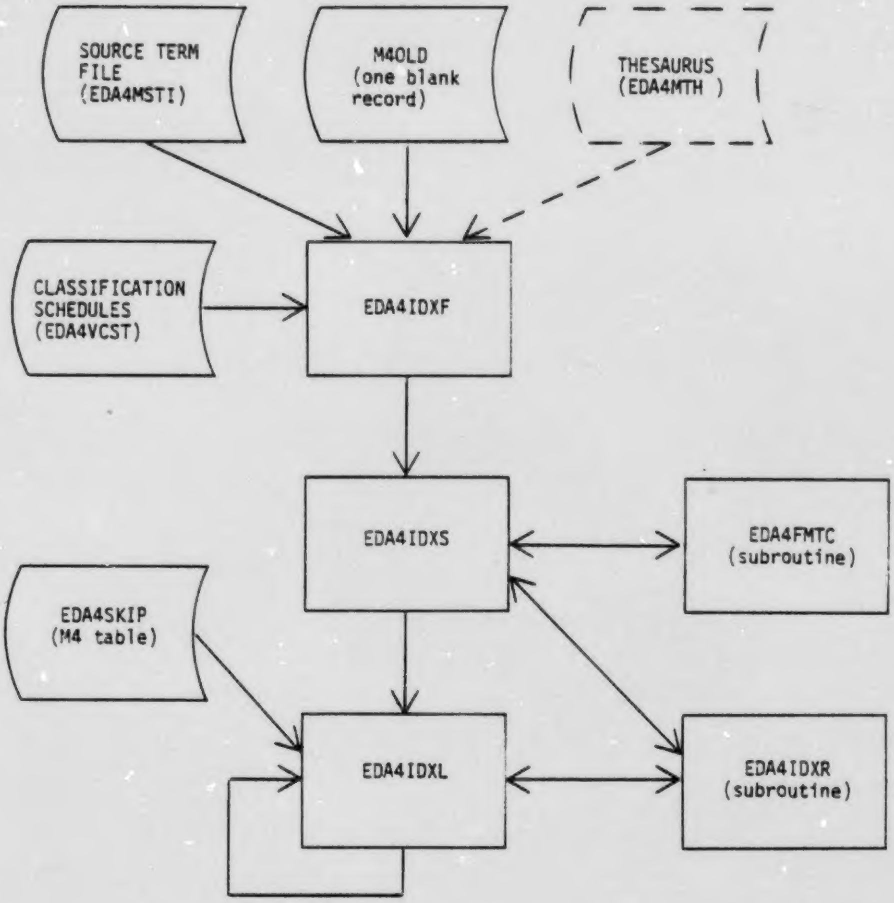
PRINT GLOSSARY REPORT

EDA4RG03


SORTED
SUBFILE
G
(EDA4GLSS)
EDA4GLSC
EDA4FMTC
(subroutine)
EDA4GLSR
(subroutine)
GLOSSARY
REPORT

PRINT GLOSSARY REPORT

EDA4RI01


SOURCE TERM FILE (EDA4MSTI)
M4OLD (one blank record)
THESAURUS (EDA4MTH)
CLASSIFICATION SCHEDULES (EDA4VCST)
EDA4IDXF
EDA4IDXS
EDA4FMTC (subroutine)
EDA4SKIP (M4 table)
EDA4IDXL
EDA4IDXR (subroutine)

PRINT GLOSSARY INDEX

APPENDIX J

SOURCE CODE

```
                                          ****************************************
                                          *       DUMP OF CATALOGED REQUESTS     *
                                          * GROUP - EDA4US04  REQUEST - EDA4-OCC *
                                          ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (2)
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID1)   (EQ)  (C,T                                 )
(PR)(120)          (X,TRAN-ID )   (EQ)  (C,MR                                )
(PR)(130)          (X,TRAN-ID )   (EQ)  (C,DR                                )
(PR)(140)                         (NS)    (END                               )
(PR)(150)            (OCC      )  (FS)  (X,OCC-ID                            )
(PR)(160)          (F,LSTATUS )   (NE)  (C)
(PR)(170)                         (R )  (C,1                                 )  (T,OCC-FLG )
(PR)(180)                         (R )  (D,4                                 )  (F,DELETE  )
```

SOURCE CODE - 3

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4RG01  REQUEST - EDA4-S2T *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                      MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID                ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** THE GLOSSARY IS PRODUCED BY TWO MARK IV STEPS WITH AN       *****
COMMENT ***** INTERVENING SORT.  THE FIRST STEP ACCESSES THE CLASSIFICA-  *****
COMMENT ***** TION SCHEDULES FILE, THE SOURCE TERM FILE, AND THE          *****
COMMENT ***** DEFINITION FILE AND SELECTS THE APPROPRIATE INFORMATION     *****
COMMENT ***** FROM EACH.  THIS SOURCE CODE IS CONTAINED IN FIVE REQUESTS. *****
COMMENT ***** THE MASTER FILES ARE COORDINATED AGAINST A DUMMY MASTER     *****
COMMENT ***** FILE TO SIMPLIFY PROCESSING.  SELECTED DATA ARE OUTPUT TO A *****
COMMENT ***** SUBFILE, SORTED, AND CONCATENATED BY THE SECOND MARK IV     *****
COMMENT ***** STEP TO PRODUCE REPORT ENTRIES.                             *****
COMMENT *****                                                             *****
COMMENT ***** EDA4-S2T SELECTS AND OUTPUTS TERMS THAT OCCUR IN BOTH THE   *****
COMMENT *****          CLASSIFICATION SCHEDULES FILE AND THE SOURCE TERM  *****
COMMENT *****          FILE.                                              *****
COMMENT ***** EDA4-S23 SELECTS TERMS THAT OCCUR ONLY IN THE SOURCE TERM   *****
COMMENT *****          FILE.                                              *****
COMMENT ***** EDA4-S2X SELECTS TERMS THAT OCCUR ONLY IN THE CLASSIFICA-   *****
COMMENT *****          TION SCHEDULES.                                    *****
COMMENT ***** EDA4-XRF SELECTS CROSS-REFERENCE INFORMATION.               *****
COMMENT ***** EDA4-S30 SELECTS DATA ASSOCIATED WITH INDIVIDUAL DEFINITION *****
COMMENT *****          OCCURRENCES.                                       *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    DATA-OUT -- SUBFILE FIELD CONTAINING DATA TO BE INCLUDED *****
COMMENT *****                IN DEFINITION REPORT ENTRY                   *****
COMMENT *****    REC-TYPE -- SUBFILE FIELD IDENTIFYING TYPE OF DATA IN    *****
COMMENT *****                RECORD                                       *****
COMMENT *****    DUMMY    -- SUBFILE FIELD USED TO PAD UNUSED CHARACTER   *****
COMMENT *****                STRING FIELDS                                *****
COMMENT *****    DUMM-F   -- SUBFILE FIELD USED TO PAD UNUSED BINARY      *****
COMMENT *****                FIELDS                                       *****
COMMENT *****                                                             *****
COMMENT ***** EDA4-S2T:                                                   *****
COMMENT *****    INITIATES COORDINATION ON CLASSIFICATION SCHEDULES FILE  *****
COMMENT *****    AND SOURCE TERM FILE.  OUTPUTS TERM DATA FOR TERMS       *****
COMMENT *****    OCCURRING IN BOTH FILES.                                 *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------------------
CARD  FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL           LINE 1 OF         LINE 2 OF                                SEQUENCE
TYPE  NAME       LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING    COLUMN HEADING                              73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(TF) (DATA-OUT) (11H) (V)           (50)
(TF) (REC-TYPE) (  1) (C)
(TF) (DUMMY   ) ( 16) (C)
(TF) (DUMMY-F ) (  4) (F)                 (0                 )
```

```
------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )   (1,TERM                           )  (T,DATA-OUT)
(PR)(120)                         (R )   (2,TERM                           )  (T,DATA-OUT)
(PR)(140)          (F,ECORD   )   (EQ)   (C,LL                             )                 ( 1) ( 2) (A)
(PR)(150)                         (R )   (C,2                              )  (T,REC-TYPE)
------------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP              SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME   BLK/ FMT H FLD              73 TO 80
 DP     P              G             LT TYP POS         NUM      HL TD REC          BUF      B CTL
------------------------------------------------------------------------------------------------------------------------------
(E1)                                                                 (NR)    (EDA4GLSS)(4130)(V)
------------------------------------------------------------------------------------------------------------------------------
          SP  Q               E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                 PARTIAL
CARD SEQ  BF  L  FIELD        N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C     PICTURE     STRT NO         SEQUENCE
TYPE NO.  COL F  NAME         D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T      EDIT       CHR CHR         73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(R1)(110)     (2,CODE     )
(R1)(120)     (2,ALPHKEY  )
(R1)(130)     (T,REC-TYPE)
(R1)(140)     (2,TERM-ID  )
(R1)(150)     (T,DUMMY    )
(R1)(160)     (T,DATA-OUT)
```

```
                                         *****************************************
                                         *      DUMP OF CATALOGED REQUESTS       *
                                         * GROUP - EDA4RG01   REQUEST - EDA4-S2X *
                                         *****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4-S2X:                                                    *****
COMMENT *****    OUTPUTS TERM DATA FOR TERMS OCCURRING ONLY IN THE         *****
COMMENT *****    CLASSIFICATION SCHEDULES FILE.                            *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A... OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (F,ECORD   )   (EQ)   (C,LX                              )                ( 1) ( 2) (A)
(PR)(120)                         (R )   (1,TERM                            )  (T,DATA-OUT)
(PR)(130)                         (R )   (C,1                               )  (T,REC-TYPE)
-------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG   STRT LIN SL RH ........SUBFILE....... C EMP             SEQUENCE
RY  RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS  PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD             73 TO 80
DP      P              G             LT TYP POS         NUM      HL TO REC           BUF      B CTL
-------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)   (EDA4GLSS)(4130)(V)
-------------------------------------------------------------------------------------------------------------------------
          SP  Q           E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L   FIELD   N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD    RA- C      PICTURE    STRT NO        SEQUENCE
TYPE NO.  COL F   NAME    D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME     TIO T       EDIT      CHR CHR        73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(R1)(110)     (1,CODE    )
(R1)(120)     (T,DUMMY   )                                                                         ( 1)(10)
(R1)(125)     (T,DUMMY-F )
(R1)(130)     (T,REC-TYPE)
(R1)(135)     (T,DUMMY-F )
(R1)(140)     (T,DUMMY   )
(R1)(150)     (T,DATA-OUT)
```

```
                                            ********************************************
                                            *       DUMP OF CATALOGED REQUESTS         *
                                            * GROUP - EDA4RG01  REQUEST - EDA4-S23 *
                                            ********************************************
------------------------------------------------------------------------------------------------------------------
CARD REPORT
TYPE  DATE            REQUESTOR ID           MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
                                             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ****************************************************** *****
COMMENT *****                                                        *****
COMMENT ***** EDA4-S23:                                              *****
COMMENT *****    OUTPUTS TERM DATA FOR TERMS OCCURRING ONLY IN THE   *****
COMMENT *****    SOURCE TERM FILE.                                   *****
COMMENT *****                                                        *****
COMMENT ***** ****************************************************** *****
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(130)         (F,ECORD   )    (EQ)    (C,XL                              )                 ( 1) ( 2) (A)
(PR)(150)                         (R )    (C,3                               )  (T,REC-TYPE)
------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP             SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD             73 TO 80
 OP     P              G              LT TYP POS         NUM      ML TD REC           BUF      B CTL
------------------------------------------------------------------------------------------------------------------
(E1)
                                                                   (NR)    (EDA4GLSS)(4130)(V)
------------------------------------------------------------------------------------------------------------------
          SP  Q               E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT        P
CARD SEQ  BF  L  FIELD        N  P  E  E  T  U   D  U  N  A  I  V E L  FIELD   RA-   C      PICTURE      PARTIAL
TYPE NO.  COL F  NAME         D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO   T       EDIT       STRT NO       SEQUENCE
                                                                                                      CHR CHR       73 TO 80
------------------------------------------------------------------------------------------------------------------
(R1)(110)     (2,CODE     )
(R1)(120)     (2,ALPHKEY )
(R1)(130)     (T,REC-TYPE)
(R1)(140)     (2,TERM-ID )
(R1)(150)     (T,DUMMY    )
(R1)(160)     (T,DATA-OUT)
```

```
                                    ***************************************
                                    *      DUMP OF CATALOGED REQUESTS     *
                                    * GROUP - EDA4RG01  REQUEST - EDA4-S30 *
                                    ***************************************
----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4-S30:                                                   *****
COMMENT *****    LINES 100-110 COORDINATE DEFINITION FILE                 *****
COMMENT *****    LINE  120     INITIALIZES DATA FIELD                     *****
COMMENT *****    LINE  130     TESTS FOR DEFINITION RECORD                *****
COMMENT *****    LINE  140     INITIALIZES OUTPUT RECORD TYPE             *****
COMMENT *****    LINES 150-190 POSITION SCOPE NOTE IN DATA FIELD          *****
COMMENT *****    LINES 200-270 IDENTIFY DEFINITION FROM REGULATIONS OR    *****
COMMENT *****                  LEGISLATION (POSITION IN DATA FIELD VARIES *****
COMMENT *****                  DEPENDING ON WHETHER A SCOPE NOTE          *****
COMMENT *****                  OCCURRED)                                  *****
COMMENT *****    LINES 280-350 POSITION DEFINITION IN DATA FIELD          *****
COMMENT *****    LINES 360-420 IDENTIFY OCCURRENCES THAT WERE NOT DEFINED *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A... OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME  ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(100)          (F,ECORD   )  (EQ)    (C,L                             )                ( 2) ( 1) (A)
(PR)(110)                        (R )    (3,SCOPE-NT                      )  (T,DATA-OUT)
(PR)(120)                        (R )    (C)                                 (T,DATA-OUT)
(PR)(130)          (F,ECORD   )  (EQ)    (C,M                             )                ( 3) ( 1) (A)
(PR)(140)                        (R )    (C,S                             )  (T,REC-TYPE)
(PR)(150)          (3,SCOPE-NT)  (NE)    (C)
(PR)(160)                        (NS)      (200                           )
(PR)(170)                        (R )    (C,(                             )  (T,DATA-OUT)
(PR)(180)          (T,DATA-OUT)  (CO)    (3,SCOPE-NT                      )  (T,DATA-OUT)
(PR)(190)          (T,DATA-OUT)  (CO)    (C,)                             )  (T,DATA-OUT)
(PR)(200)          (2,SRC-TYPE)  (EQ)    (C,2                             )
(PR)(210)          (2,SRC-TYPE)  (EQ)    (C,4                             )
(PR)(220)                        (NS)      (280                           )
(PR)(230)          (3,SCOPE-NT)  (NE)    (C)
(PR)(240)                        (NS)      (270                           )
(PR)(250)          (T,DATA-OUT)  (C1)    (C,(L)                           )  (T,DATA-OUT)
(PR)(260)                        (GO)      (280                           )
(PR)(270)          (T,DATA-OUT)  (CO)    (C,(L)                           )  (T,DATA-OUT)
(PR)(280)          (3,STATUS  )  (EQ)    (C,0                             )
(PR)(290)          (3,STATUS  )  (EQ)    (C,2                             )
(PR)(300)                        (NS)      (360                           )
(PR)(310)          (T,DATA-OUT)  (SL)    (P,#(#                           )
(PR)(320)                        (NS)      (350                           )
(PR)(330)          (T,DATA-OUT)  (C1)    (3,DEFINITN                      )  (T,DATA-OUT)
(PR)(340)                        (GO)      (OUTPUT                        )
(PR)(350)          (T,DATA-OUT)  (CO)    (3,DEFINITN                      )  (T,DATA-OUT)
(PR)(360)          (3,STATUS  )  (EQ)    (C,1                             )
(PR)(370)                        (NS)      (OUTPUT                        )
(PR)(380)          (T,DATA-OUT)  (SL)    (P,#(#                           )
(PR)(390)                        (NS)      (420                           )
```

```
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B............. ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME    ATN   QLF   FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(400)          (T,DATA-OUT)   (C1)    (C,NOT DEFINED.                   )  (T,DATA-OUT)
(PR)(410)                         (GO)      (OUTPUT                         )
(PR)(420)          (T,DATA-OUT)   (C0)    (C,NOT DEFINED.                   )  (T,DATA-OUT)
-------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  OT  PG   STRT LIN SL RH .......SUBFILE........ C EMP            SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS  PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD            73 TO 80
 DP     P              G             LT TYP POS          NUM      ML TD REC           BUF      B CTL
-------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)   (EDA4GLSS)(4130)(V)
-------------------------------------------------------------------------------------------------------------------------
          SP  Q           E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD    N  P  E  E  T  U   O  U  N  A  I  V E L   FIELD   RA- C      PICTURE     STRT NO      SEQUENCE
TYPE NO.  COL F  NAME     D  R  Q  S  L  B   T  M  T  X  N  G C F   NAME    TIO T       EDIT      CHR CHR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(R1)(110)    (2,CODE    )
(R1)(120)    (2,ALPHKEY )
(R1)(130)    (T,REC-TYPE)
(R1)(140)    (3,DEF-SEQ )
(R1)(150)    (3,PREFERD )
(R1)(160)    (3,STATUS  )
(R1)(170)    (3,SRC-ID  )
(R1)(180)    (2,SRC-TYPE)
(R1)(190)    (T,DATA-OUT)
```

SOURCE CODE - 9

```
                                   *****************************************
                                   *      DUMP OF CATALOGED REQUESTS       *
                                   * GROUP - EDA4RG01  REQUEST - EDA4-XRF  *
                                   *****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ******************************************************* *****
COMMENT *****                                                         *****
COMMENT ***** EDA4-XRF:                                               *****
COMMENT *****    OUTPUTS CROSS-REFERENCE INFORMATION WHEN IT APPEARS IN *****
COMMENT *****    THE MASTER FILE.                                     *****
COMMENT *****                                                         *****
COMMENT ***** ******************************************************* *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (F,ECORD    )   (EQ)   (C,XL                              )                ( 1) ( 2) (A)
(PR)(120)         (F,ECORD    )   (EQ)   (C,LL                              )                ( 1) ( 2) (A)
(PR)(130)                         (R )   (C,8                               )  (T,REC-TYPE)
(PR)(135)         (2,XREF     ).  (EQ)   (2,XREF                            )
(PR)(140)                         (R )   (2,XREF                            )  (T,DATA-OUT)
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP           SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME   BLK/ FMT H FLD           73 TO 80
 DP     P              G             LT TYP POS         NUM      ML TD REC          BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)   (EDA4GLSS)(4130)(V)
------------------------------------------------------------------------------------------------------------------------
         SP  Q              E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                  PARTIAL
CARD SEQ BF  L  FIELD       N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C      PICTURE     STRT NO      SEQUENCE
TYPE NO. COL F  NAME        D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T       EDIT       CHR CHR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)(110)    (2,CODE     )
(R1)(120)    (2,ALPHKEY  )
(R1)(130)    (T,REC-TYPE)
(R1)(135)    (T,DUMMY-F  )
(R1)(140)    (T,DUMMY    )
(R1)(150)    (T,DATA-OUT)
```

```
                                         *****************************************
                                         *       DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4UC06  REQUEST - EDA4ADTS  *
                                         *****************************************
--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****         (2)
COMMENT *****                                                              *****
COMMENT ***** EDA4ADTS:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH  *****
COMMENT *****    THE MASTER FILE.                                          *****
COMMENT *****                                                              *****
COMMENT *****    TEMPORARY FIELDS:                                         *****
COMMENT *****       USES SAME TEMPORARY FIELDS AS EDA4ADTS                 *****
COMMENT *****                                                              *****
COMMENT *****    INFORMATION ON TERMS WITH SPELLING CHANGES IS MOVED INTO  *****
COMMENT *****    APPROPRIATE FIELDS FOR SUBFILING.  TWO REPORTS ARE USED   *****
COMMENT *****    TO WRITE THE TWO TABLE ENTRY CARDS TO THE SAME SUBFILE.   *****
COMMENT ***** (NOTE:  A SINGLE TABLE IS USED TO HOLD DELETIONS AND         *****
COMMENT *****    SPELLING CHANGES.  THE TWO TYPES OF CHANGES ARE DIFFER-   *****
COMMENT *****    ENTIATED BY THE CONTENTS OF THE RESULT FIELD.)            *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT          QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(120)          (X,TRAN-ID )    (EQ)   (C,CS                              )
(PR)(130)     (A)  (X,CODE    )    (EQ)   (C)
(PR)(140)                          (R )   (X,TERM                            )  (T,ARG1    )  ( 1) (30) (B)
(PR)(150)                          (R )   (X,TERM                            )  (T,ARG2    )  (31) (10) (B)
(PR)(160)                          (R )     (CODE                            )  (T,RES1    )
--------------------------------------------------------------------------------------------------------------------------
 CT SUM V  S  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP            SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD            73 TO 80
 OP     P               G             LT TYP POS         NUM     ML TD REC           BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------
(E1)
                                                                     (NR)   (EDA4ATRM)(    1)(F)
--------------------------------------------------------------------------------------------------------------------------
          SP  Q               E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                 PARTIAL
CARD SEQ  BF  L  FIELD        N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C      PICTURE    STRT NO       SEQUENCE
TYPE NO.  COL F  NAME         D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T       EDIT      CHR CHR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(R1)(110)(  0)(T,EDA4      )
(R1)(120)(  0)(T,ATRM      )
(R1)(130)(  0)(T,TE1       )
(R1)(140)(  0)(T,ARG1      )
(R1)(150)(  0)(T,RES1      )
(R1)(160)(  0)(T,BLANK     )
--------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP            SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD            73 TO 80
 OP     P               G             LT TYP POS         NUM     ML TD REC           BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------
(E2)
                                                                     (NR)   (EDA4ATRM)(    1)(F)
```

```
------------------------------------------------------------------------------------------------------------------------
          SP  Q             E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P             PARTIAL
CARD SEQ  BF  L  FIELD      N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA- C   PICTURE   STRT NO     SEQUENCE
TYPE NO.  COL F  NAME       D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO T    EDIT     CHR CHR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R2)(110)(  0)(T,EDA4      )
(R2)(120)(  0)(T,ATRM      )
(R2)(130)(  0)(T,TE2       )
(R2)(140)(  0)(T,ARG2      )
(R2)(150)(  0)(T,RES2      )
(R2)(160)(  0)(T,BLANK     )
```

```
                                          *****************************************
                                          *      DUMP OF CATALOGED REQUESTS       *
                                          * GROUP - EDA4UC06  REQUEST - EDA4ADT1  *
                                          *****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                        MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID                 ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                               (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4ADT1:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH  *****
COMMENT *****    THE MASTER FILE.                                          *****
COMMENT *****                                                              *****
COMMENT *****    TEMPORARY FIELDS:                                         *****
COMMENT *****       EDA4      -- CONSTANT CHARACTER STRING USED AS FIRST   *****
COMMENT *****                    FOUR CHARACTERS OF TABLE NAME             *****
COMMENT *****       ATRM      -- CONSTANT CHARACTER STRING USED AS LAST    *****
COMMENT *****                    FOUR CHARACTERS OF TABLE NAME             *****
COMMENT *****       TE1       -- CONSTANT CHARACTER STRING CONTAINING MARK *****
COMMENT *****                    IV FORM CODE AND CARD NUMBER FOR TABLE    *****
COMMENT *****                    ENTRIES                                   *****
COMMENT *****       ARG1      -- ARGUMENT FIELD FOR FIRST CARD OF TABLE    *****
COMMENT *****                    ENTRY                                     *****
COMMENT *****       ARG2      -- ARGUMENT FIELD FOR SECOND CARD OF TABLE   *****
COMMENT *****                    ENTRY                                     *****
COMMENT *****       RES1      -- RESULT FIELD FOR FIRST CARD OF TABLE      *****
COMMENT *****                    ENTRY                                     *****
COMMENT *****       RES2      -- RESULT FIELD FOR SECOND CARD OF TABLE     *****
COMMENT *****                    ENTRY                                     *****
COMMENT *****       BLANK     -- BLANK WORK FIELD TO PAD OUT CARD IMAGE    *****
COMMENT *****                                                              *****
COMMENT *****    INFORMATION ON DELETED TERMS IS MOVED INTO THE            *****
COMMENT *****    APPROPRIATE FIELDS FOR SUBFILING.  TWO REPORTS ARE USED   *****
COMMENT *****    TO WRITE THE TWO TABLE ENTRY CARDS TO THE SAME SUBFILE.   *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
CARD  FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                       SEQUENCE
TYPE  NAME       LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                    73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (EDA4    ) (  4) (C)                  (EDA4          )
(TF) (ATRM    ) (  4) (C)                  (ATRM          )
(TF) (TE1     ) (  4) (C)                  (TE1           )
(TF) (TE2     ) (  4) (C)                  (TE2           )
(TF) (ARG1    ) ( 30) (C)
(TF) (ARG2    ) ( 30) (C)
(TF) (RES1    ) ( 30) (C)                  (D             )
(TF) (RES2    ) ( 30) (C)
(TF) (BLANK   ) (  8) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ   LOG CON ..OPERAND A...  OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.   LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )    (EQ)   (C,CD                              )
(PR)(140)                          (R )   (X,TERM                            )  (T,ARG1     )  ( 1) (30) (B)
(PR)(150)                          (R )   (X,TERM                            )  (T,ARG2     )  (31) (10) (B)
(PR)(160)                          (R )   (C,D                               )  (T,RES1     )
```

```
--------------------------------------------------------------------------------------------------------------------------
CT  SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RM .......SUBFILE...,..... C EMP             SEQUENCE
RY  RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD             73 TO 80
DP      P               G             LT TYP POS         NUM      ML TD REC            BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------
(E1)                                                                 (NR)   (EDA4ATRM)(    1)(F)
--------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C      PICTURE     STRT NO       SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T       EDIT       CHR CHR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,EDA4    )
(R1)(120)( 0)(T,ATRM    )
(R1)(130)( 0)(T,TE1     )
(R1)(140)( 0)(T,ARG1    )
(R1)(150)( 0)(T,RES1    )
(R1)(160)( 0)(T,BLANK   )
--------------------------------------------------------------------------------------------------------------------------
CT  SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RM .......SUBFILE...,..... C EMP             SEQUENCE
RY  RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD             73 TO 80
DP      P               G             LT TYP POS         NUM      ML TD REC            BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------
(E2)                                                                 (NR)   (EDA4ATRM)(    1)(F)
--------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C      PICTURE     STRT NO       SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T       EDIT       CHR CHR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(R2)(110)( 0)(T,EDA4    )
(R2)(120)( 0)(T,ATRM    )
(R2)(130)( 0)(T,TE2     )
(R2)(140)( 0)(T,ARG2    )
(R2)(150)( 0)(T,RES2    )
(R2)(160)( 0)(T,BLANK   )
```

```
                                     ****************************************
                                     *      DUMP OF CATALOGED REQUESTS      *
                                     * GROUP - EDA4UC15  REQUEST - EDA4ADT2 *
                                     ****************************************
--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                        MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID                ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                               (2)
COMMENT ***** ********************************************************** *****
COMMENT *****                                                            *****
COMMENT ***** EDA4ADT2:                                                  *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****    THE MASTER FILE.                                        *****
COMMENT *****                                                            *****
COMMENT *****    TEMPORARY FIELDS:                                       *****
COMMENT *****       EDA4     -- CHARACTER STRING CONSTANT USED AS FIRST  *****
COMMENT *****                   FOUR CHARACTERS OF TABLE NAME            *****
COMMENT *****       ACOD     -- CHARACTER STRING CONSTANT USED AS LAST   *****
COMMENT *****                   FOUR CHARACTERS OF TABLE NAME            *****
COMMENT *****       TE       -- CHARACTER STRING CONSTANT CONTAINING MARK *****
COMMENT *****                   IV FORM CODE                             *****
COMMENT *****       ARG      -- ARGUMENT FIELD OF TABLE ENTRY            *****
COMMENT *****       RESULT   -- RESULT FIELD OF TABLE ENTRY              *****
COMMENT *****                                                            *****
COMMENT *****    OUTPUTS TABLE ENTRY CARDS FOR ALL CLASSIFICATION CODES  *****
COMMENT *****    THAT WERE DELETED OR MODIFIED.                          *****
COMMENT *****                                                            *****
COMMENT ***** ********************************************************** *****
--------------------------------------------------------------------------------------------------------------------------
CARD   FIELD       FIELD FLD DEC OUTPT EDIT       INITIAL           LINE 1 OF        LINE 2 OF                       SEQUENCE
TYPE   NAME        LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING                     73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(TF) (EDA4     ) (  4) (C)                   (EDA4            )
(TF) (ACOD     ) (  4) (C)                   (ACOD            )
(TF) (TE       ) (  4) (C)                   (TE              )
(TF) (ARG      ) ( 30) (C)
(TF) (RESULT   ) ( 38) (C)                   (M               )
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(110)           (X,TRAN-ID )  (EQ)    (C,CD                           )
(PR)(120)           (X,TRAN-ID )  (EQ)    (C,DD                           )
(PR)(130)                         (R )    (X,CODE                         )  (T,ARG      )
--------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP                SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME   BLK/ FMT H FLD                73 TO 80
 DP     P              G             LT TYP POS         NUM     ML TD REC          BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------
(E1)                                                                    (NR)   (EDA4ACOD)(    1)(F)
--------------------------------------------------------------------------------------------------------------------------
          SP  Q                 E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                 PARTIAL
CARD SEQ  BF  L  FIELD          N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C     PICTURE     STRT NO     SEQUENCE
TYPE NO.  COL F  NAME           D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T      EDIT       CHR CHR     73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,EDA4     )
(R1)(120)( 0)(T,ACOD     )
(R1)(130)( 0)(T,TE       )
```

```
---------------------------------------------------------------------------------------------------------------------
          SP  Q              E  N  S  D  C  S   T  C  C  M  M   A D Q PCT/RAT         P                 PARTIAL
CARD SEQ  BF  L  FIELD       N  P  E  E  T  U   O  U  N  A  I   V E L  FIELD    RA-  C      PICTURE    STRT NO      SEQUENCE
TYPE NO.  COL F  NAME        D  R  Q  S  L  B   T  M  T  X  N   G C F  NAME     TIO  T       EDIT      CHR CHR      73 TO 80
---------------------------------------------------------------------------------------------------------------------
(R1)(140)( 0)(T,ARG      )
(R1)(150)( 0)(T,RESULT   )
```

```
                              ****************************************
                              *       DUMP OF CATALOGED REQUESTS     *
                              * GROUP - EDA4IS02  REQUEST - EDA4ASEQ *
                              ****************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                                     MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
--------------------------------------------------------------------------------------------------------------------
CARD  FIELD    FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF       LINE 2 OF                      SEQUENCE
TYPE  NAME     LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING  COLUMN HEADING                   73 TO 80
--------------------------------------------------------------------------------------------------------------------
(TF) (ALPHKEY ) (  4) (F)          ( 5) (0                )
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(100)         (T,ALPHKEY )   (+ )   (O,1                             )  (T,ALPHKEY )
(PR)(110)                        (R )   (T,ALPHKEY                       )  (N,ALPHKEY )
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC05  REQUEST - EDA4BTM  *
                                        ****************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VENT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (1)
COMMENT ***** ********************************************************** *****
COMMENT *****                                                           *****
COMMENT ***** VERIFICATION ROUTINE USED BY BOTH THE CLASSI' ICATION     *****
COMMENT ***** SCHEDULES UPDATE AND THE THESAURUS UPDATE RUNS.           *****
COMMENT *****                                                           *****
COMMENT ***** TEMPORARY FIELDS:                                         *****
COMMENT *****    KEY      -- FLAG USED IN CLASSIFICATION SCHEDULES      *****
COMMENT *****                VERIFICATION TO INDICATE APPLICABLE FILE   *****
COMMENT *****                SEQUENCE                                   *****
COMMENT *****    BLNKTFLG -- FLAG INDICATING BLANK TERM                 *****
COMMENT *****                                                           *****
COMMENT ***** EDA4BTM :                                                 *****
COMMENT *****    EXECUTES AFTER EACH TRANSACTION IS READ.               *****
COMMENT *****       LINES 090-100 BYPASS TRANSACTIONS FOR WHICH TEST IS *****
COMMENT *****                     INVALID                               *****
COMMENT *****       LINE  110     TESTS FIRST CHARACTER OF TERM FIELD FOR *****
COMMENT *****                     BLANK                                 *****
COMMENT *****       LINES 120-130 SET FLAGS FOR ERROR TRANSACTION       *****
COMMENT *****                                                           *****
COMMENT ***** ********************************************************** *****
-----------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                        SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING                     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(TF) (KEY     ) (  1) (C)                     (C               )
(TF) (BLNKTFLG) (  1) (C)
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(090)         (X,TRAN-ID )   (NE)   (C,DL                               )
(PR)(095)     (A) (X,TRAN-ID )   (NE)   (C,DS                               )
(PR)(096)     (A) (X,TRAN-ID )   (NE)   (C,S2                               )
(PR)(097)     (A) (X,TRAN-ID )   (NE)   (C,S3                               )
(PR)(100)                        (NS)     (END                              )
(PR)(110)         (X,TERM    )   (CV)   (P,B                                )                ( 1) ( 1) (A)
(PR)(120)                        (R )   (D,4                                )  (F,DELETE  )
(PR)(130)                        (R )   (C,1                                )  (T,BLNKTFLG)
```

```
                                  *****************************************
                                  *      DUMP OF CATALOGED REQUESTS       *
                                  * GROUP - EDA4UC03  REQUEST - EDA4CDMM *
                                  *****************************************
------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE        REQUESTOR ID            ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE CLASSIFICATION SCHEDULES VERIFICATION IS PERFORMED IN    *****
COMMENT ***** TWO SEPARATE JOB STEPS.  THE FIRST STEP CHECKS THE           *****
COMMENT ***** TRANSACTIONS AGAINST THE CLASSIFICATION SCHEDULES FILE       *****
COMMENT ***** (ORGANIZED ALPHABETICALLY BY TERM) AND MODIFIES SOME OF THE  *****
COMMENT ***** TRANSACTIONS FOR PROCESSING BY LATER STEPS.  MODIFIED AND    *****
COMMENT ***** PASSED TRANSACTIONS ARE OUTPUT TO A SUBFILE.  IF ANY         *****
COMMENT ***** TRANSACTION IS REJECTED, THE CONDITION CODE IS SET TO        *****
COMMENT ***** PREVENT EXECUTION OF THE UPDATE STEPS AND A TRANSACTION      *****
COMMENT ***** ERROR REPORT IS OUTPUT.  SOURCE CODE FOR THE FIRST           *****
COMMENT ***** VERIFICATION STEP IS CONTAINED IN TEN REQUESTS:              *****
COMMENT *****                                                              *****
COMMENT *****    EDA4TOVF TESTS FOR TRANSACTION FIELD OVERFLOW             *****
COMMENT *****    EDA4CDMM TESTS DELETE TRANSACTIONS FOR CORRECT MATCHING   *****
COMMENT *****             OF CODE AND TERM                                 *****
COMMENT *****    EDA4PAS1 PASSES UNMODIFIED ADD AND DELETE TRANSACTIONS    *****
COMMENT *****             TO THE SECOND VERIFICATION STEP                  *****
COMMENT *****    EDA4MOD1 MODIFIES THE DELETE CARD OF A SPELLING CHANGE    *****
COMMENT *****             PAIR FOR TESTING BY THE SECOND VERIFICATION      *****
COMMENT *****             STEP.  (THIS GENERATED TRANSACTION IS ONLY       *****
COMMENT *****             USED FOR TESTING.)                               *****
COMMENT *****    EDA4PAS2 PASSES, UNMODIFIED, THE ADD CARD OF A SPELLING   *****
COMMENT *****             CHANGE PAIR                                      *****
COMMENT *****    EDA4MOD2 GENERATES A CODE CHANGE TRANSACTION FOR          *****
COMMENT *****             TESTING BY THE SECOND VERIFICATION STEP (A NEW   *****
COMMENT *****             SET OF TRANSACTIONS MUST BE GENERATED TO MOVE    *****
COMMENT *****             THESAURUS DATA FROM ONE RECORD TO ANOTHER ON A   *****
COMMENT *****             CODE CHANGE.)                                    *****
COMMENT *****    EDA4GTRN OUTPUTS MODIFIED OR GENERATED TRANSACTIONS       *****
COMMENT *****    EDA4TERP DETERMINES THE CAUSE FOR REJECTING TRANS-        *****
COMMENT *****             ACTIONS, CREATES AN APPROPRIATE ERROR MESSAGE,   *****
COMMENT *****             AND SETS THE CONDITION CODE                      *****
COMMENT *****    ERA4TERR OUTPUTS TRANSACTION ERROR REPORT ENTRIES         *****
COMMENT *****    EDA4FMTC FORMATS THE CODE FOR PRINTING                    *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    SEE INDIVIDUAL REQUESTS.                                  *****
COMMENT *****                                                              *****
COMMENT ***** EDA4CDMM:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE     *****
COMMENT *****    MASTER FILE.  FOR DELETE TRANSACTIONS, THE CODE IN THE    *****
COMMENT *****    MASTER FILE IS CHECKED AGAINST THE CODE ON THE TRANS-     *****
COMMENT *****    ACTION.  IF THE CODES DO NOT MATCH, FLAGS ARE SET TO      *****
COMMENT *****    REJECT THE TRANSACTION.                                   *****
COMMENT *****       LINE  115      ASSURES THAT THE TEST APPLIES ONLY WHEN *****
COMMENT *****                      THE RECORD ACTUALLY APPEARS IN THE      *****
COMMENT *****                      MASTER FILE.  (A DIFFERENT MESSAGE IS   *****
COMMENT *****                      OUTPUT WHEN THE MASTER RECORD IS NOT    *****
COMMENT *****                      FOUND.)                                 *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL            LINE 1 OF        LINE 2 OF
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH         VALUE           COLUMN HEADING   COLUMN HEADING                 SEQUENCE
                                                                                                                   73 TO 80
--------------------------------------------------------------------------------------------------------------------
(TF) (MISMTFLG) (  1) (C)
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )    (EQ)   (C,CD                                )
(PR)(115)     (A) (O,CODE    )    (EQ)   (O,CODE                              )
(PR)(120)     (A) (X,CODE    )    (NE)   (O,CODE                              )
(PR)(130)                         (R )   (D,4                                 )  (F,DELETE  )
(PR)(140)                         (R )   (C,1                                 )  (T,MISMTFLG)
```

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                                    ****************************************
                                    *       DUMP OF CATALOGED REQUESTS     *
                                    * GROUP - EDA4UT04  REQUEST - EDA4CKCV *
                                    ****************************************
----------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                      (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE VERIFICATION STEP OF THE THESAURUS UPDATE ACCESSES THE   *****
COMMENT ***** CLASSIFICATION SCHEDULES FILE AS WELL AS THE MASTER          *****
COMMENT ***** THESAURUS FILE AND TRANSACTION FILE.  IN ADDITION TO         *****
COMMENT ***** VERIFYING ALL TRANSACTIONS, RECIPROCAL TRANSACTIONS ARE      *****
COMMENT ***** GENERATED AND OUTPUT TO A SUBFILE.  IF ANY TRANSACTION       *****
COMMENT ***** FAILS THE VERIFICATION TESTS, AN ERROR REPORT IS GENERATED   *****
COMMENT ***** AND THE CONDITION CODE IS SET TO PREVENT EXECUTION OF THE    *****
COMMENT ***** UPDATE STEP.  THE SOURCE CODE FOR THE STEP IS CONTAINED IN   *****
COMMENT ***** TWELVE REQUESTS:                                             *****
COMMENT *****                                                              *****
COMMENT *****    EDA4TOVF CHECKS EACH TRANSACTION FOR FIELD OVERFLOWS      *****
COMMENT *****    EDA4BTM  CHECKS FOR BLANK TERMS                           *****
COMMENT *****    EDA4CKCV CHECKS REFERENCES TO CONTROLLED VOCABULARY       *****
COMMENT *****             TERMS TO ASSURE THAT EACH APPEARS IN THE         *****
COMMENT *****             CLASSIFICATION SCHEDULES                         *****
COMMENT *****    EDA4CKLE CHECKS LEAD-IN ENTRY TERMS TO ASSURE THAT NONE   *****
COMMENT *****             DUPLICATES A CONTROLLED VOCABULARY TERM          *****
COMMENT *****    EDA4GNRR CREATES RECIPROCAL ADD TRANSACTIONS              *****
COMMENT *****    EDA4GNRD CREATES RECIPROCAL DELETE TRANSACTIONS           *****
COMMENT *****    EDA4LCNT CHECKS FOR VALID LEAD-IN ENTRY UNITS             *****
COMMENT *****    EDA4GTRN OUTPUTS RECIPROCAL TRANSACTIONS                  *****
COMMENT *****    EDA4TERP DETERMINES THE TYPE OF TRANSACTION ERROR FOUND,  *****
COMMENT *****             CONSTRUCTS AN ERROR MESSAGE FOR OUTPUT, AND      *****
COMMENT *****             SETS THE CONDITION CODE                          *****
COMMENT *****    EDA4TERR OUTPUTS TRANSACTION ERROR REPORT ENTRIES         *****
COMMENT *****    EDA4FMTC FORMATS THE CLASSIFICATION CODE FOR PRINTING     *****
COMMENT *****    EDA4LSUM TESTS FOR INVALID LEAD-IN ENTRY UNITS, SETS THE  *****
COMMENT *****             CONDITION CODE, AND CONSTRUCTS AN ERROR          *****
COMMENT *****             MESSAGE                                          *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    SEE INDIVIDUAL REQUEST DOCUMENTATION.                     *****
COMMENT *****                                                              *****
COMMENT ***** EDA4CKCV:                                                    *****
COMMENT *****    EXECUTES AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH  *****
COMMENT *****    MASTER FILE.                                              *****
COMMENT *****       LINE  100     REINITIALIZES TEMPORARY FIELD FOR        *****
COMMENT *****                     THESAURUS VERIFICATION                   *****
COMMENT *****       LINES 110-180 SELECT APPLICABLE TRANSACTION TYPE       *****
COMMENT *****       LINES 190-200 PERFORM COORDINATION                     *****
COMMENT *****       LINES 210-220 SET FLAGS FOR ERROR TRANSACTION          *****
COMMENT *****                                                              *****
COMMENT *****    TEMPORARY FIELDS:                                         *****
COMMENT *****       KEY      -- FLAG CONTROLLING ERROR MESSAGE PRODUCED    *****
COMMENT *****                   BY ERROR REPORT                            *****
COMMENT *****       CORDLKUP -- FLAG INDICATING TYPE OF ERROR ON USER      *****
COMMENT *****                   REJECTED TRANSACTION.  ALSO USED AS DUMMY  *****
COMMENT *****                   FIELD TO INITIATE COORDINATION.            *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------
CARD  FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL          LINE 1 OF         LINE 2 OF                    SEQUENCE
TYPE  NAME       LNGTH TYP PLC EDIT  LGTH         VALUE         COLUMN HEADING   COLUMN HEADING                  73 TO 80
------------------------------------------------------------------------------------------------------------------
(TF) (CORULKUP) (  1) (C)
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(100)                         (R )   (C)                                   (T,KEY      )
(PR)(110)         (X,TRAN-ID1)    (EQ)   (C,R                              )
(PR)(120)         (X,TRAN-ID1)    (EQ)   (C,B                              )
(PR)(130)         (X,TRAN-ID1)    (EQ)   (C,N                              )
(PR)(140)         (X,TRAN-ID1)    (EQ)   (C,M                              )
(PR)(150)         (X,TRAN-ID )    (EQ)   (C,UN                             )
(PR)(160)         (X,TRAN-ID )    (EQ)   (C,UR                             )
(PR)(170)         (X,TRAN-ID )    (EQ)   (C,UA                             )
(PR)(180)         (X,TRAN-ID )    (EQ)   (C,SE                             )
(PR)(190)                         (R )   (1,TERM                           )  (T,CORDLKUP)  (  1) (  1) (B)
(PR)(200)         (F,ECORD    )   (NE)   (C,M                              )                (  1) (  1) (A)
(PR)(210)                         (R )   (C,X                              )  (T,CORULKUP)
(PR)(220)                         (R )   (D,4                              )  (F,DELETE  )
```

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                        ****************************************
                        *      DUMP OF CATALOGED REQUESTS      *
                        * GROUP - EDA4UT04  REQUEST - EDA4CKLE *
                        ****************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID              ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (2)
COMMENT ***** ************************************************************** *****
COMMENT *****                                                                *****
COMMENT ***** EDA4CKLE:                                                      *****
COMMENT *****    EXECUTES AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH    *****
COMMENT *****    MASTER FILE.                                                *****
COMMENT *****                                                                *****
COMMENT *****    TEMPORARY FIELDS:                                           *****
COMMENT *****       CORDLKUP -- FLAG INDICATING TYPE OF ERROR ON USER        *****
COMMENT *****                   REJECTED TRANSACTION.  ALSO USED AS DUMMY    *****
COMMENT *****                   FIELD TO INITIATE COORDINATION.              *****
COMMENT *****       LEFLG    -- FLAG INDICATING AN "LE" TRANSACTION HAS      *****
COMMENT *****                   BEEN PROCESSED                               *****
COMMENT *****       LE-TYPE  -- FLAG INDICATING THE LAST TRANSACTION TYPE    *****
COMMENT *****                   PROCESSED FOR A LEAD-IN ENTRY UNIT           *****
COMMENT *****                                                                *****
COMMENT *****    LINES 100-110 SELECT APPLICABLE TRANSACTION TYPE            *****
COMMENT *****    LINES 120-140 PERFORM COORDINATION                          *****
COMMENT *****    LINES 150-160 SET FLAGS FOR ERROR TRANSACTION               *****
COMMENT *****    LINES 165-180 SET FIELDS TO PROCESS LEAD-IN ENTRY UNIT      *****
COMMENT *****                                                                *****
COMMENT ***** ************************************************************** *****
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(100)         (X,TRAN-ID )    (EQ)   (C,UF                                )
(PR)(110)         (X,TRAN-ID )    (EQ)   (C,LE                                )
(PR)(120)                         (R )   (1,TERM                              )  (T,CORDLKUP)  ( 1) ( 1) (B)
(PR)(130)         (F,ECORD    )   (EQ)   (C,M                                 )                ( 1) ( 1) (A)
(PR)(140)                         (NS)     (165                               )
(PR)(150)                         (R )   (C,M                                 )  (T,CORDLKUP)
(PR)(160)                         (R )   (D,4                                 )  (F,DELETE  )
(PR)(165)         (X,TRAN-ID )    (EQ)   (C,LE                                )
(PR)(167)                         (R )   (C)                                     (X,CODE    )
(PR)(170)                         (R )   (D,1                                 )  (T,LEFLG   )
(PR)(180)                         (R )   (X,TRAN-ID                           )  (T,LE-TYPE )
```

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                                        ****************************************
                                        *       DUMP OF CATALOGED REQUESTS     *
                                        * GROUP - EDA4RC01  REQUEST - EDA4CS-R *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID         ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** THE REPORT GENERATOR FOR THE CLASSIFICATION                 *****
COMMENT ***** SCHEDULES CONSISTS OF A SINGLE REQUEST TO FORMAT            *****
COMMENT ***** THE REPORT (EDA4CS-R) WHICH CALLS A GENERAL                 *****
COMMENT ***** SUBROUTINE REQUEST TO FORMAT THE CODE (EDA4FMTC).           *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    CODEIN   -- WORK FIELD PASSED TO SUBROUTINE              *****
COMMENT *****    CODEOUT  -- WORK FIELD RETURNED BY SUBROUTINE            *****
COMMENT *****    TERMOUT  -- REPORT FIELD USED TO INDENT TERM TO          *****
COMMENT *****               POSITION DESIRED IN REPORT                    *****
COMMENT *****                                                             *****
COMMENT ***** EDA4CS-R:                                                   *****
COMMENT *****       LINES 110-130 INITIALIZE FIELDS.  THE                 *****
COMMENT *****                     FORMATED CODE IS RETURNED BY            *****
COMMENT *****                     THE SUBROUTINE, EDA4FMTC.               *****
COMMENT *****       LINES 140-500 SCAN FOR THE FIRST BLANK                *****
COMMENT *****                     CLASSIFICATION LEVEL, INDENT            *****
COMMENT *****                     THE TERM THE APPROPRIATE AMOUNT         *****
COMMENT *****                     AND OUTPUT THE REPORT LINE.             *****
COMMENT *****       REPORT:  THE UNFORMATED CODE IS USED TO SORT          *****
COMMENT *****                THE REPORT IN PROPER SEQUENCE, BUT           *****
COMMENT *****                IS NOT PRINTED.  ONLY THE FIRST 24           *****
COMMENT *****                CHARACTERS OF THE FORMATED CODE ARE          *****
COMMENT *****                USED FOR THE CLASSIFICATION CODE.            *****
COMMENT *****                THE PAGE WIDTH IS NARROWED TO 84 TO          *****
COMMENT *****                CENTER THE TITLE OVER THE REPORT.            *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL          LINE 1 OF         LINE 2 OF                SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH         VALUE        COLUMN HEADING    COLUMN HEADING              73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF)  (CODEIN  ) ( 30) (C)
(TF)  (CODEOUT ) ( 36) (C)
(TF)  (TERMOUT ) ( 58) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )  (C)                                  (T,TERMOUT )
(PR)(120)                         (R )    (CODE                            )  (T,CODEIN  )
(PR)(130)                         (GO)    (SUB EDA4FMTC                    )
(PR)(140)            (CODE     )  (SL)  (P,BB                              )                ( 3) ( 2) (A)
(PR)(150)                         (NS)    (180                             )
(PR)(160)                         (R )    (TERM                            )  (T,TERMOUT )
(PR)(170)                         (GO)    (OUTPUT                          )
(PR)(180)            (CODE     )  (SL)  (P,BB                              )                ( 5) ( 2) (A)
(PR)(190)                         (NS)    (220                             )
```

```
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............   ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR    73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(200)                         (R )     (TERM                            ) (T.TERMOUT )  ( 3) (40) (C)
(PR)(210)                         (GO)     (OUTPUT                          )
(PR)(220)            (CODE     )  (SL)   (P.BB                              )               ( 7) ( 2) (A)
(PR)(230)                         (NS)     (260                             )
(PR)(240)                         (R )     (TERM                            ) (T.TERMOUT )  ( 5) (40) (C)
(PR)(250)                         (GO)     (OUTPUT                          )
(PR)(260)            (CODE     )  (SL)   (P.BB                              )               ( 9) ( 2) (A)
(PR)(270)                         (NS)     (300                             )
(PR)(280)                         (R )     (TERM                            ) (T.TERMOUT )  ( 7) (40) (C)
(PR)(290)                         (GO)     (OUTPUT                          )
(PR)(300)            (CODE     )  (SL)   (P.BB                              )               (11) ( 2) (A)
(PR)(310)                         (NS)     (340                             )
(PR)(320)                         (R )     (TERM                            ) (T.TERMOUT )  ( 9) (40) (C)
(PR)(330)                         (GO)     (OUTPUT                          )
(PR)(340)            (CODE     )  (SL)   (P.BB                              )               (13) ( 2) (A)
(PR)(350)                         (NS)     (380                             )
(PR)(360)                         (R )     (TERM                            ) (T.TERMOUT )  (11) (40) (C)
(PR)(370)                         (GO)     (OUTPUT                          )
(PR)(380)            (CODE     )  (SL)   (P.BB                              )               (15) ( 2) (A)
(PR)(390)                         (NS)     (420                             )
(PR)(400)                         (R )     (TERM                            ) (T.TERMOUT )  (13) (40) (C)
(PR)(410)                         (GO)     (OUTPUT                          )
(PR)(420)            (CODE     )  (SL)   (P.BB                              )               (17) ( 2) (A)
(PR)(430)                         (NS)     (460                             )
(PR)(440)                         (R )     (TERM                            ) (T.TERMOUT )  (15) (40) (C)
(PR)(450)                         (GO)     (OUTPUT                          )
(PR)(460)            (CODE     )  (SL)   (P.BB                              )               (19) ( 2) (A)
(PR)(470)                         (NS)     (500                             )
(PR)(480)                         (R )     (TERM                            ) (T.TERMOUT )  (17) (40) (C)
(PR)(490)                         (GO)     (OUTPUT                          )
(PR)(500)                         (R )     (TERM                            ) (T.TERMOUT )  (19) (40) (C)
--------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP          SEQUENCE
 RY RPT S LN WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD         73 TO 80
 DP     P              G             LT TYP POS         NUM      ML TO REC           BUF      B CTL
--------------------------------------------------------------------------------------------------------------------
(E1)         ( 84)          (56)        (X)     (LL.LR)
--------------------------------------------------------------------------------------------------------------------
         SP  Q                E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                 PARTIAL
CARD SEQ BF  L  FIELD         N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C      PICTURE    STRT NO      SEQUENCE
TYPE NO. COL F  NAME          D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T       EDIT      CHR CHR      73 TO 80
--------------------------------------------------------------------------------------------------------------------
(R1)(110)      (CODE      )   (Y)(1)    (1)
(R1)(120)( 0)(T.CODEOUT )
(R1)(130)    (T.TERMOUT )                                                                        ( 1)(24)
--------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                     SEQUENCE
TYPE  NO.                                          TEXT                                                       73 TO 80
--------------------------------------------------------------------------------------------------------------------
(T1) (140)                  (CLASSIFICATION SCHEDULES#                                    )
(T1)(150) (#)
```

```
                                   ****************************************
                                   *      DUMP OF CATALOGED REQUESTS      *
                                   * GROUP - EDA4UC06  REQUEST - EDA4CSCR *
                                   ****************************************
------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                    (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE STEP IN WHICH THE CLASSIFICATION SCHEDULES FILE IS       *****
COMMENT ***** UPDATED PERFORMS AN UPDATE IN PLACE ON THE MASTER            *****
COMMENT ***** CLASSIFICATION SCHEDULES, PRODUCES A SUBFILE OF TABLE        *****
COMMENT ***** ENTRIES FOR DELETIONS AND SPELLING CHANGES, AND GENERATES A  *****
COMMENT ***** REPORT OF ALL CHANGES MADE.  REQUEST PROCESSING TAKES PLACE  *****
COMMENT ***** PRIOR TO TRANSACTION UPDATE IN ORDER TO ACCESS DELETED       *****
COMMENT ***** RECORDS.  THE TABLE GENERATED IS USED BY SUBSEQUENT STEPS    *****
COMMENT ***** TO RECONCILE REFERENCES TO DELETED OR CHANGED SOURCE TERMS.  *****
COMMENT ***** THE SOURCE CODE FOR THIS STEP IS CONTAINED IN FOUR           *****
COMMENT ***** REQUESTS:                                                    *****
COMMENT *****                                                              *****
COMMENT ***** EDA4CSCR GENERATES THE CLASSIFICATION SCHEDULES CHANGE       *****
COMMENT *****          REPORT                                              *****
COMMENT ***** EDA4ADT1 GENERATES TABLE ENTRIES FOR DELETED TERMS           *****
COMMENT ***** EDA4ADTS GENERATES TABLE ENTRIES FOR TERMS THAT HAVE         *****
COMMENT *****          CHANGED SPELLING                                    *****
COMMENT ***** EDA4FMTC FORMATS THE CLASSIFICATION CODE FOR PRINTING        *****
COMMENT *****                                                              *****
COMMENT ***** EDA4CSCR:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH  *****
COMMENT *****    THE MASTER FILE.                                          *****
COMMENT *****                                                              *****
COMMENT *****    TEMPORARY FIELDS:                                         *****
COMMENT *****       CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING  *****
COMMENT *****                   ROUTINE                                    *****
COMMENT *****       CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE    *****
COMMENT *****       CHGTYPE  -- REPORT FIELD USED TO DESCRIBE TYPE OF      *****
COMMENT *****                   UPDATE                                     *****
COMMENT *****       TERMSTRG -- REPORT FIELD CONTAINING DESCRIPTIVE        *****
COMMENT *****                   INFORMATION REGARDING UPDATE               *****
COMMENT *****       SPCHGSRT -- NON-PRINTING SORT FIELD USED TO SEQUENCE   *****
COMMENT *****                   REPORT LINES DESCRIBING SPELLING CHANGES   *****
COMMENT *****                                                              *****
COMMENT *****    LINE  110      PLACES TERM IN REPORT FIELD                *****
COMMENT *****    LINES 120-150  SET UP REPORT FIELD FOR NEW TERM           *****
COMMENT *****    LINES 160-190  SET UP REPORT FIELD FOR DELETED TERM       *****
COMMENT *****    LINES 200-280  SET UP REPORT FIELDS FOR CODE CHANGE       *****
COMMENT *****    LINES 290-390  SET UP REPORT FIELDS FOR SPELLING CHANGE   *****
COMMENT *****                   (SEPARATE LINES FOR OLD AND NEW SPELLING   *****
COMMENT *****                   RESULT FROM USE OF THE TERM AS THE FILE    *****
COMMENT *****                   KEY)                                       *****
COMMENT *****    LINES 400-410  FORMAT CLASSIFICATION CODE                 *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
```

```
------------------------------------------------------------------------------------------------------------------
CARD  FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF       LINE 2 OF                SEQUENCE
TYPE  NAME       LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING  COLUMN HEADING             73 TO 80
------------------------------------------------------------------------------------------------------------------
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
(TF) (CHGTYPE ) (  7) (C)
(TF) (TERMSTRG) ( 72) (C)
(TF) (SPCHGSRT) (  1) (C)                 (1                )
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD   SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR   73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )   (X,TERM                            )  (T,TERMSTRG)
(PR)(120)         (X,TRAN-ID )    (EQ)   (C,CA                              )
(PR)(130)                         (NS)     (160                             )
(PR)(140)                         (R )   (C,ADDED                           )  (T,CHGTYPE )
(PR)(150)                         (GO)     (400                             )
(PR)(160)         (X,TRAN-ID )    (EQ)   (C,CD                              )
(PR)(170)                         (NS)     (200                             )
(PR)(180)                         (R )   (C,DELETED                         )  (T,CHGTYPE )
(PR)(190)                         (GO)     (400                             )
(PR)(200)                         (R )   (C,CHANGED                         )  (T,CHGTYPE )
(PR)(210)         (X,TRAN-ID )    (EQ)   (C,CC                              )
(PR)(220)                         (NS)     (290                             )
(PR)(230)         (T,TERMSTRG)    (C1)   (C,(FROM                           )  (T,TERMSTRG)
(PR)(240)                         (R )     (CODE                            )  (T,CODEIN  )
(PR)(250)                         (GO)     (SUB EDA4FMTC                    )
(PR)(260)         (T,TERMSTRG)    (C1)   (T,CODEOUT                         )  (T,TERMSTRG)
(PR)(270)         (T,TERMSTRG)    (C0)   (C,)                               )  (T,TERMSTRG)
(PR)(280)                         (GO)     (400                             )
(PR)(290)         (X,TRAN-ID )    (EQ)   (C,CS                              )
(PR)(300)     (A) (X,CODE    )    (EQ)   (C)
(PR)(310)                         (NS)     (360                             )
(PR)(320)         (T,TERMSTRG)    (C1)   (C,(OLD SPELLING)                  )  (T,TERMSTRG)
(PR)(330)                         (R )   (C,1                               )  (T,SPCHGSRT)
(PR)(340)                         (R )     (CODE                            )  (T,CODEIN  )
(PR)(350)                         (GO)     (410                             )
(PR)(360)         (X,TRAN-ID )    (EQ)   (C,CS                              )
(PR)(370)     (A) (X,CODE    )    (NE)   (C)
(PR)(380)         (T,TERMSTRG)    (C1)   (C,(NEW SPELLING)                  )  (T,TERMSTRG)
(PR)(390)                         (R )   (C,2                               )  (T,SPCHGSRT)
(PR)(400)                         (R )   (X,CODE                            )  (T,CODEIN  )
(PR)(410)                         (GO)     (SUB EDA4FMTC                    )
------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP        SEQUENCE
 RY RPT S LPI WID HGT  H FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME   BLK/ FMT H FLD        73 TO 80
 DP     P              G             LT TYP POS         NUM      HL TD REC          BUF      B CTL
------------------------------------------------------------------------------------------------------------------
(E1)                         (56)        (X)
------------------------------------------------------------------------------------------------------------------
              SP  Q             E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                PARTIAL
CARD SEQ      BF  L  FIELD      N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C     PICTURE    STRT NO    SEQUENCE
TYPE NO.      COL F  NAME       D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T      EDIT      CHR CHR    73 TO 80
------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,CHGTYPE )         (1)     (1)(S)
(R1)(120)( 4)(T,CODEOUT )         (2)
(R1)(130)( 4)(T,TERMSTRG)                                                                       ( 1)(24)
(R1)(140)( 0)(T,SPCHGSRT)      (Y)(3)
```

```
------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                          SEQUENCE
TYPE  NO.                                   TEXT                                                   73 TO 80
------------------------------------------------------------------------------------------------------------
(T1) (110)                   (CHANGES TO CLASSIFICATION SCHEDULES#        )
(T1) (120)                   (DURING THIS RUN#                            )
(T1)(130) (#)
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC05  REQUEST - EDA4CSPR *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(EH)(DATE   )                                                                      (2)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4CSPR:                                                   *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH        *****
COMMENT *****    MASTER FILE.                                             *****
COMMENT *****       LINES 110-160 RESET FLAG FOR CORRECTLY PAIRED         *****
COMMENT *****                     SPELLING CHANGE TRANSACTIONS            *****
COMMENT *****       LINES 170-200 SET FLAGS TO REJECT ERROR TRANSACTION   *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,CS                                 )
(PR)(120)     (A)  (T,CSFLG   )   (EQ)   (C,1                                  )
(PR)(130)                         (NS)     (170                                )
(PR)(140)                         (R )   (C)                                      (T,CSFLG    )
(PR)(160)                         (GO)     (END                                )
(PR)(170)          (X,TRAN-ID )   (EQ)   (C,CS                                 )
(PR)(180)     (A)  (T,CSFLG   )   (EQ)   (C)                                   )
(PR)(190)                         (R )   (D,4                                  )  (F,DELETE   )
(PR)(200)                         (R )   (C,2                                  )  (T,CSFLG    )
```

```
                                        *************************************
                                        *      DUMP OF CATALOGED REQUESTS    *
                                        * GROUP - EDA4UC05  REQUEST - EDA4CTMT *
                                        *************************************
------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT
TYPE  DATE            REQUESTOR ID             MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
                                              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ********************************************************** *****         (2)
COMMENT *****                                                            *****
COMMENT ***** THE CLASSIFICATION SCHEDULES VERIFICATION IS PERFORMED IN  *****
COMMENT ***** TWO SEPARATE JOB STEPS.  THE SECOND STEP CHECKS MODIFIED   *****
COMMENT ***** AND PASSED TRANSACTIONS AGAINST THE THESAURUS FILE         *****
COMMENT ***** (ORGANIZED SEQUENTIALLY BY CODE) AND PERFORMS FURTHER      *****
COMMENT ***** MODIFICATIONS TO GENERATE AND PASS TRANSACTIONS TO THE     *****
COMMENT ***** RECONCILIATION STEP.  MODIFIED AND PASSED TRANSACTIONS ARE *****
COMMENT ***** OUTPUT TO A SUBFILE.  IF ANY TRANSACTION IS REJECTED, THE  *****
COMMENT ***** CONDITION CODE IS SET TO PREVENT EXECUTION OF THE UPDATE   *****
COMMENT ***** STEPS AND A TRANSACTION ERROR REPORT IS OUTPUT.  SOURCE    *****
COMMENT ***** CODE FOR THE SECOND STEP IS CONTAINED IN FOURTEEN REQUESTS: *****
COMMENT *****                                                            *****
COMMENT *****    EDA4BTM  TESTS FOR BLANK TERMS                          *****
COMMENT *****    EDA4CTMT SETS FLAG FOR CHECKING THAT SPELLING CHANGE    *****
COMMENT *****             TRANSACTIONS ARE PAIRED                        *****
COMMENT *****    EDA4CSPR TESTS THAT SPELLING CHANGE TRANSACTIONS ARE    *****
COMMENT *****             PAIRED                                         *****
COMMENT *****    EDA4MOD3 GENERATES TRANSACTIONS TO MOVE DATA FROM OLD   *****
COMMENT *****             CODE TO NEW CODE                               *****
COMMENT *****    EDA4GTRN OUTPUTS GENERATED TRANSACTIONS                 *****
COMMENT *****    EDA4PAS1 PASSES UNMODIFIED ADD AND DELETE TRANSACTIONS  *****
COMMENT *****             TO THE RECONCILIATION STEP                     *****
COMMENT *****    EDA4PAS2 PASSES, UNMODIFIED, THE ADD CARD OF A SPELLING *****
COMMENT *****             CHANGE PAIR                                    *****
COMMENT ***** EDA4TERP DETERMINES THE CAUSE FOR REJECTING TRANSACTIONS,  *****
COMMENT *****             CREATES AN APPROPRIATE ERROR MESSAGE, AND SETS *****
COMMENT *****             THE CONDITION CODE                             *****
COMMENT *****    ERA4TERR OUTPUTS TRANSACTION ERROR REPORT ENTRIES       *****
COMMENT *****    EDA4MOD4 GENERATES TRANSACTIONS TO MOVE "RT" REFERENCES *****
COMMENT *****             FROM OLD CODE TO NEW CODE                      *****
COMMENT *****    EDA4MOD5 GENERATES TRANSACTIONS TO MOVE "BT" REFERENCES *****
COMMENT *****             FROM OLD CODE TO NEW CODE                      *****
COMMENT *****    EDA4MOD6 GENERATES TRANSACTIONS TO MOVE "NT" REFERENCES *****
COMMENT *****             FROM OLD CODE TO NEW CODE                      *****
COMMENT *****    EDA4FMTC FORMATS THE CODE FOR PRINTING                  *****
COMMENT *****    EDA4FLGI PERFORMS FURTHER TESTING FOR INVALID SPELLING  *****
COMMENT *****             CHANGE PAIRS                                   *****
COMMENT *****                                                            *****
COMMENT ***** TEMPORARY FIELDS:                                          *****
COMMENT *****    SEE INDIVIDUAL REQUESTS.                                *****
COMMENT *****                                                            *****
COMMENT ***** EDA4CTMT:                                                  *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE   *****
COMMENT *****    MASTER FILE.  SETS FLAG FOR CHECKING THAT SPELLING      *****
COMMENT *****    CHANGE TRANSACTIONS ARE CORRECTLY PAIRED.               *****
COMMENT *****                                                            *****
COMMENT *****    TEMPORARY FIELDS:                                       *****
COMMENT *****       CSFLG    -- SPELLING CHANGE FLAG                     *****
COMMENT *****                                                            *****
COMMENT ***** ********************************************************** *****
```

```
--------------------------------------------------------------------------------------------------------------
CARD  FIELD    FIELD FLD DEC OUTPT EDIT      INITIAL         LINE 1 OF        LINE 2 OF                SEQUENCE
TYPE  NAME     LNGTH TYP PLC EDIT  LGTH       VALUE       COLUMN HEADING   COLUMN HEADING              73 TO 80
--------------------------------------------------------------------------------------------------------------
(TF) (CSFLG   ) (  1) (C)
--------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD   SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
--------------------------------------------------------------------------------------------------------------
(PR)(110)         (X.TRAN-ID )    (EQ)   (C)
(PR)(120)                         (R )   (C.1                             )  (T.CSFLG   )
```

```
                                   ****************************************
                                   *       DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4UD02  REQUEST - EDA4UFCL *
                                   ****************************************
---------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                                  (   19)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4DFCL:                                                    *****
COMMENT *****    FUNCTIONS AS A LOOP WHICH MAY BE PERFORMED UP TO NINE-    *****
COMMENT *****    TEEN TIMES.                                               *****
COMMENT *****       LINE  110     TESTS FOR END OF DEFINITION (IE END OF   *****
COMMENT *****                     LOOP)                                    *****
COMMENT *****       LINES 120-160 CREATE NEXT LINE OF DEFINITION           *****
COMMENT *****       LINES 170-180 INCREMENT FIELDS                         *****
COMMENT *****       LINES 184-186 PLACE LEADING "0" IN CARD NUMBERS LESS   *****
COMMENT *****                     THAN TEN                                 *****
COMMENT *****       LINE  190     RETURN                                   *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(100)         (F.TRAN     )   (NE)   (D.0                               )
(PR)(110)     (A) (T.LNUMBER )    (GE)   (T.LSTART                          )
(PR)(120)                         (R )   (T.LSTART                          )  (F.LSTART  )
(PR)(130)                         (R )     (DEFINITN                        )  (T.CARD    )  (LS)      (B)
(PR)(140)                         (R )   (T.CARD-NO                         )  (T.LINE-OUT)  (14) ( 2) (C)
(PR)(150)                         (R )   (T.CARD                            )  (T.LINE-OUT)  (16) (53) (C)
(PR)(160)                         (GO)     (SUB EDA4DFCR                    )
(PR)(170)         (T.LSTART  )    (+ )   (D.53                              )  (T.LSTART  )
(PR)(180)         (T.CARD-NO )    (+ )   (D.1                               )  (T.CARD-NO )
(PR)(184)         (T.CARD-NO )    (EQ)   (C)                                                 ( 1) ( 1) (A)
(PR)(185)                         (NS)     (190                             )
(PR)(186)                         (R )   (C.0                               )  (T.CARD-NO )  ( 1) ( 1) (C)
(PR)(190)                         (GO)     (REQUEST EDA4UFCL                )
```

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                                          ****************************************
                                          *      DUMP OF CATALOGED REQUESTS       *
                                          * GROUP - EDA4UD02  REQUEST - EDA4DFCP *
                                          ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                                               (Y)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE DEFINITION CHANGE REPORT IS USED TO OBTAIN SELECTED      *****
COMMENT ***** LISTINGS OF THE CONTENTS OF DEFINITION RECORDS IN THE        *****
COMMENT ***** FORMAT NECESSARY FOR TEXT UPDATE TRANSACTIONS.  THE REPORT   *****
COMMENT ***** IS PART OF THE REQUEST STREAM FOR UPDATE OF THE MASTER       *****
COMMENT ***** DEFINITION FILE AND PRINTS THE FINAL VERSION OF ALL UPDATED *****
COMMENT ***** RECORDS.  AN "LD" TRANSACTION IS AVAILABLE TO SIMPLY LIST    *****
COMMENT ***** A RECORD DURING AN UPDATE RUN OR FOR USE WHEN THE CHANGE     *****
COMMENT ***** REPORT IS RUN INDEPENDENTLY OF UPDATE PROCEDURES.            *****
COMMENT *****                                                              *****
COMMENT ***** THE SOURCE CODE IS CONTAINED IN FOUR REQUESTS WHICH ACCESS   *****
COMMENT ***** THE MASTER DEFINITION FILE AND PRODUCE AN UNSORTED REPORT.   *****
COMMENT ***** TRANSACTIONS MUST ALSO BE SUBMITTED IN ORDER TO PRODUCE ANY *****
COMMENT ***** ENTRIES IN THE REPORT.                                       *****
COMMENT *****                                                              *****
COMMENT ***** EDA4DFCP CREATES REPORT LINES FOR THE FIXED PORTION OF EACH *****
COMMENT *****          REPORT ENTRY                                        *****
COMMENT ***** EDA4DFCL CREATES REPORT LINES FOR THE BODY OF THE            *****
COMMENT *****          DEFINITION                                          *****
COMMENT ***** EDA4DFCS INSERTS BLANK LINES AT THE END OF EACH REPORT       *****
COMMENT *****          ENTRY                                               *****
COMMENT ***** EDA4DFCR OUTPUTS THE REPORT LINES                            *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    LINE-OUT -- REPORT LINE                                   *****
COMMENT *****    STATUS   -- WORK FIELD USED TO CONVERT BINARY FIELD TO    *****
COMMENT *****                CHARACTER                                     *****
COMMENT *****    DEF-SEQ  -- WORK FIELD USED TO CONVERT BINARY FIELD TO    *****
COMMENT *****                CHARACTER                                     *****
COMMENT *****    PREFERD  -- WORK FIELD USED TO CONVERT BINARY FIELD TO    *****
COMMENT *****                CHARACTER                                     *****
COMMENT *****    CARD     -- WORK FIELD USED TO SEGMENT DEFINITION INTO    *****
COMMENT *****                TRANSACTION CARD IMAGES                       *****
COMMENT *****    LNUMBER  -- WORK FIELD CONTAINING LENGTH OF DEFINITION    *****
COMMENT *****    LSTART   -- WORK FIELD USED TO OVERRIDE POTENTIAL         *****
COMMENT *****                AUTOMATIC SETTING OF PARTIAL FIELD FLAG       *****
COMMENT *****    CARD-NO  -- COUNT FIELD FOR CARD IMAGE SEQUENCING OF      *****
COMMENT *****                DEFINITION SEGMENTS                           *****
COMMENT *****                                                              *****
COMMENT ***** EDA4DFCP:                                                    *****
COMMENT *****    LINES 110-115 TEST FOR TRANSACTION ACTIVITY               *****
COMMENT *****    LINE  120     INITIALIZES DEFINITION LENGTH FOR RECORDS   *****
COMMENT *****                  WITH NO DEFINITION                          *****
COMMENT *****    LINES 130-140 DETERMINE LENGTH OF DEFINITION              *****
COMMENT *****    LINES 150-210 CREATE FIRST LINE OF REPORT ENTRY           *****
COMMENT *****    LINES 220-230 OUTPUT BLANK LINE                           *****
COMMENT *****    LINES 240-400 CREATE REMAINING LINES FOR HEADER SECTION   *****
COMMENT *****                  OF REPORT ENTRY                             *****
COMMENT *****    LINES 410-470 CREATE FIRST LINE OF DEFINITION, SETTING    *****
COMMENT *****                  LENGTH FIELD FOR DEFINED ENTRIES            *****
COMMENT *****    LINES 480-510 INITIALIZE FIELDS FOR REMAINDER OF          *****
COMMENT *****                    DEFINITION OUTPUT                         *****
COMMENT *****                                                              *****
COMMENT ***** ******************************************************** *****
------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF          LINE 2 OF                 SEQUENCE
TYPE   NAMF       LNGTH TYP PLC EDIT  LGTH       VALUE        COLUMN HEADING    COLUMN HEADING               73 TO 80
------------------------------------------------------------------------------------------------------------
(TF) (LINE-OUT) ( 68) (C)
(TF) (STATUS  ) (  1) (C)
(TF) (DEF-SEQ ) (  2) (C)
(TF) (PREFERD ) (  1) (C)
(TF) (CARD    ) ( 53) (C)
(TF) (LNUMBER ) (  4) (F)
(TF) (LSTART  ) (  4) (F)
(TF) (CARD-NO ) (  2) (C)
------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------
(PR)(110)         (F.TRAN    )   (NE)   (D.0                                )
(PR)(120)                        (R )   (D.0                                )  (T.LNUMBER )
(PR)(130)           (DEFINITN)   (SL)   (P.#*?*#                            )
(PR)(140)                        (NS)     (150                              )
(PR)(150)                        (R )   (C.DOCUMENT:                        )  (T.LINE-OUT)
(PR)(160)         (T.LINE-OUT)   (C2)     (SRC-ID                           )  (T.LINE-OUT)
(PR)(170)                        (R )   (C.PAGE:                            )  (T.LINE-OUT)  (33) ( 5) (C)
(PR)(180)         (T.LINE-OUT)   (C2)     (SRC-LOC                          )  (T.LINE-OUT)
(PR)(190)                        (R )   (C.SEQUENCE ID:                     )  (T.LINE-OUT)  (49) (12) (C)
(PR)(200)         (T.LINE-OUT)   (C2)     (SRC-SEQ                          )  (T.LINE-OUT)
(PR)(210)                        (GO)     (SUB EDA4DFCR                     )
(PR)(220)                        (R )   (C)                                    (T.LINE-OUT)
(PR)(230)                        (GO)     (SUB EDA4DFCR                     )
(PR)(240)                        (R )     (STATUS                           )  (T.STATUS  )
(PR)(250)                        (R )     (DEF-SEQ                          )  (T.DEF-SEQ )
(PR)(260)                        (R )     (PREFERD                          )  (T.PREFERD )
(PR)(270)                        (R )   (C.STATUS=                          )  (T.LINE-OUT)
(PR)(280)         (T.LINE-OUT)   (C0)   (T.STATUS                           )  (T.LINE-OUT)
(PR)(290)                        (R )   (C.GLOSSARY SEQUENCE=               )  (T.LINE-OUT)  (14) (18) (C)
(PR)(300)         (T.LINE-OUT)   (C0)   (T.DEF-SEQ                          )  (T.LINE-OUT)
(PR)(310)                        (R )   (C.PREFERRED=                       )  (T.LINE-OUT)  (39) (10) (C)
(PR)(320)         (T.LINE-OUT)   (C0)   (T.PREFERD                          )  (T.LINE-OUT)
(PR)(330)                        (GO)     (SUB EDA4DFCR                     )
(PR)(340)                        (R )   (C)                                    (T.LINE-OUT)
(PR)(350)                        (GO)     (SUB EDA4DFCR                     )
(PR)(360)                        (R )   (C.SCOPE NOTE:                      )  (T.LINE-OUT)
(PR)(370)         (T.LINE-OUT)   (C2)     (SCOPE-NT                         )  (T.LINE-OUT)
(PR)(380)                        (GO)     (SUB EDA4DFCR                     )
(PR)(390)                        (R )   (C)                                    (T.LINE-OUT)
(PR)(400)                        (GO)     (SUB EDA4DFCR                     )
(PR)(410)                        (R )   (C.DEFINITION:                      )  (T.LINE-OUT)
(PR)(420)           (DEFINITN)   (NE)   (C)
(PR)(430)                        (NS)     (470                              )
(PR)(440)                        (R )     (DEFINITN                         )  (T.CARD    )
(PR)(450)                        (R )   (C.01                               )  (T.LINE-OUT)  (14) ( 2) (C)
(PR)(460)                        (R )   (T.CARD                             )  (T.LINE-OUT)  (16) (53) (C)
(PR)(465)                        (R )   (F.LNUMBER                          )  (T.LNUMBER )
(PR)(470)                        (GO)     (SUB EDA4DFCR                     )
(PR)(480)                        (R )   (C)                                    (T.LINE-OUT)
```

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--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(500)                         (R )   (D,54                               )  (T.LSTART  )
(PR)(510)                         (R )   (C,02                               )  (T.CARD-NO )
```

```
                                      *******************************************
                                      *       DUMP OF CATALOGED REQUESTS        *
                                      * GROUP - EDA4U002  REQUEST - EDA4DFCR *
                                      *******************************************
--------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                             MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE             REQUESTOR ID                   ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ***$*************************************************************** *****        (S)
COMMENT *****                                                              *****
COMMENT ***** EDA4DFCR:                                                    *****
COMMENT *****    SUBROUTINE REQUEST PERFORMED ONLY WHEN CALLED.  OUTPUTS   *****
COMMENT *****    DEFINITION CHANGE REPORT LINES.  THE PAGE WIDTH HAS BEEN *****
COMMENT *****    NARROWED TO CENTER THE TITLE LINES OVER THE BODY OF THE   *****
COMMENT *****    REPORT.                                                   *****
COMMENT *****                                                              *****
COMMENT ***** *************************************************************** *****
--------------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP              SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT  NAME   BLK/ FMT H FLD              73 TO 80
 OP     P               G             LT TYP POS         NUM      HL TD REC         BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------------
(E1)        ( 74)          (58)         (X)
--------------------------------------------------------------------------------------------------------------------------------
          SP  Q              E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                PARTIAL
CARD SEQ  RF  L  FIELD       N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C    PICTURE     STRT NO       SEQUENCE
TYPE NO.  COL F  NAME        D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T     EDIT       CHR CHR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(R1)     ( 0)  (OCC-ID  )  (Y)      (1)
(R1)     ( 0)(T.LINE-OUT)
--------------------------------------------------------------------------------------------------------------------------------
CARD  SEQ
TYPE  NO.                                      TEXT                                                          SEQUENCE
                                                                                                             73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(T1)                     (DEFINITIONS CHANGED#                                    )
(T1)                     (THIS RUN#                                               )
(T1)      (#)
(T1)      (#)
(T1)      (#)
```

```
                                    **************************************
                                    *      DUMP OF CATALOGED REQUESTS    *
                                    * GROUP - EDA4UD02  REQUEST - EDA4DFCS *
                                    **************************************
------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                      MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(EN)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4DFCS:                                                    *****
COMMENT *****                                                              *****
COMMENT *****    INSERTS BLANK LINES AT END OF REPORT ENTRY TO IMPROVE     *****
COMMENT *****    READABILITY OF REPORT.                                    *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (F,TRAN    )    (NE)   (D,0                               )
(PR)(120)                         (R )   (C)                                     (T,LINE-OUT)
(PR)(130)                         (GO)     (SUB EDA4DFCR                    )
(PR)(140)                         (GO)     (SUB EDA4DFCR                    )
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                                                            ****************************************
                                                            *      DUMP OF CATALOGED REQUESTS      *
                                                            * GROUP - EDA4US05  REQUEST - EDA4UOCC *
                                                            ****************************************
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CARD REPORT
TYPE  DATE              REQUESTOR ID            MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
                                               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(EH)(DATE  )                                                                           (3)
--------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...   OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME    ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(PH)(110)         (X,TRAN-ID )     (EQ)   (C,OR                                )
(PH)(120)     (A) (F,TRAN     )    (EQ)   (D,1                                 )
(PH)(130)                          (NS)     (END                               )
(PH)(140)             (OCC    )    (FS)   (X,OCC-ID                            )
(PH)(150)                          (R )   (C)                                     (OCC-ID  )
(PH)(160)                          (R )   (D,2                                 ) (F,DELETE  )
```

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                         **************************************
                         *      DUMP OF CATALOGED REQUESTS    *
                         * GROUP - EDA4UD02  REQUEST - EDA4DTXU *
                         **************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                    (J)                   (Y)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE DEFINITION TEXT UPDATE TRANSACTIONS PROVIDE THE          *****
COMMENT ***** CAPABILITY TO MODIFY A PORTION OF A DEFINITION WITHOUT       *****
COMMENT ***** REENTERING THE ENTIRE TEXT.  AN "LD" TRANSACTION SHOULD      *****
COMMENT ***** HAVE BEEN APPLIED IN A PREVIOUS RUN TO OBTAIN A LISTING      *****
COMMENT ***** OF THE DEFINITION IN TRANSACTION CARD FORMAT.                *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    DEFSTRG1 -- WORK FIELD FOR FIRST SECTION OF DEFINITION    *****
COMMENT *****    DEFSTRG2 -- WORK FIELD FOR SECOND SECTION OF DEFINITION   *****
COMMENT *****    DEFSTRG3 -- WORK FIELD FOR THIRD SECTION OF DEFINITION    *****
COMMENT *****    DEFSTRG4 -- WORK FIELD FOR FOURTH SECTION OF DEFINITION   *****
COMMENT *****    DEFSTRG5 -- WORK FIELD FOR FIFTH SECTION OF DEFINITION    *****
COMMENT *****                                                              *****
COMMENT ***** EDA4DTXU:                                                    *****
COMMENT *****    EXECUTES AFTER THE APPLICATION OF EACH TRANSACTION.       *****
COMMENT *****       LINES 110-115 TEST FOR SUCCESSFUL MATCH ON "SD"        *****
COMMENT *****                     TRANSACTION                              *****
COMMENT *****       LINE  116     INITIALIZES FLAG LNUMBER                 *****
COMMENT *****       LINES 119-120 DETERMINE LENGTH OF DEFINITION (FLAG     *****
COMMENT *****                     LNUMBER)                                 *****
COMMENT *****       LINES 121-139 MOVE DEFINITION TEXT INTO IT'S COMPONENT *****
COMMENT *****                     WORK FIELDS                              *****
COMMENT *****       LINES 140-860 REPLACE TRANSACTION DATA INTO            *****
COMMENT *****                     APPROPRIATE POSITION IN WORK FIELD       *****
COMMENT *****       LINES 880-930 IF DATA IS TO BE PLACED IN LAST          *****
COMMENT *****                     POSITION OF DEFINITION, TEST FOR         *****
COMMENT *****                     OVERFLOW AND INSERT OVERFLOW INDICATOR   *****
COMMENT *****                     (...) BEFORE MOVING INTO WORK FIELD      *****
COMMENT *****       LINES 940-942 BEGIN MOVING WORK FIELDS BACK INTO       *****
COMMENT *****                     DEFINITION FIELD                         *****
COMMENT *****       LINES 943-955 CONCATENATE FIRST AND SECOND SECTIONS    *****
COMMENT *****                     OF DEFINITION INSERTING ZERO, ONE, OR    *****
COMMENT *****                     TWO BLANKS, DEPENDING ON NUMBER OF       *****
COMMENT *****                     BLANKS AT END OF FIRST SECTION           *****
COMMENT *****       LINES 956-994 CONCATENATE REMAINING SECTIONS OF        *****
COMMENT *****                     DEFINITION AS ABOVE                      *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL           LINE 1 OF       LINE 2 OF                       SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH       VALUE          COLUMN HEADING  COLUMN HEADING                    73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (DEFSTRG1) (212) (C)
(TF) (DEFSTRG2) (212) (C)
(TF) (DEFSTRG3) (212) (C)
(TF) (DEFSTRG4) (212) (C)
(TF) (DEFSTRG5) (122) (C)
```

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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR    73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )    (EQ)   (C,SD                                 )
(PR)(115)     (A) (F,XTRAN   )    (EQ)   (D,0                                  )
(PR)(116)                         (P )   (D,0                                  ) (F,LNUMBER )
(PR)(119)           (DEFINITN)    (SL)   (P,#*7*#                              )
(PR)(120)                         (NS)     (121                                )
(PR)(121)         (F,LNUMBER )    (GT)   (D,0                                  )
(PR)(122)                         (NS)     (140                                )
(PR)(123)                         (R )     (DEFINITN                           ) (T,DEFSTRG1)  ( 1)       (B)
(PR)(124)                         (R )   (D,213                                ) (F,RSTART  )
(PR)(125)         (F,LNUMBER )    (GT)   (D,212                                )
(PR)(126)                         (NS)     (140                                )
(PR)(127)                         (R )     (DEFINITN                           ) (T,DEFSTRG2)  (RS)       (B)
(PR)(128)         (F,RSTART  )    (+ )   (D,212                                ) (F,RSTART  )
(PR)(129)         (F,LNUMBER )    (GT)   (D,424                                )
(PR)(130)                         (NS)     (140                                )
(PR)(131)                         (R )     (DEFINITN                           ) (T,DEFSTRG3)  (RS)       (B)
(PR)(132)         (F,RSTART  )    (+ )   (D,212                                ) (F,RSTART  )
(PR)(133)         (F,LNUMBER )    (GT)   (D,636                                )
(PR)(134)                         (NS)     (140                                )
(PR)(135)                         (R )     (DEFINITN                           ) (T,DEFSTRG4)  (RS)       (B)
(PR)(136)         (F,RSTART  )    (+ )   (D,212                                ) (F,RSTART  )
(PR)(137)         (F,LNUMBER )    (GT)   (D,848                                )
(PR)(138)                         (NS)     (140                                )
(PR)(139)                         (R )     (DEFINITN                           ) (T,DEFSTRG5)  (RS)       (B)
(PR)(140)         (X,CARD-NO )    (EQ)   (C,01                                 )
(PR)(150)                         (NS)     (180                                )
(PR)(160)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG1)  ( 1) (53)  (C)
(PR)(170)                         (GO)     (940                                )
(PR)(180)         (X,CARD-NO )    (EQ)   (C,02                                 )
(PR)(190)                         (NS)     (220                                )
(PR)(200)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG1)  (54) (53)  (C)
(PR)(210)                         (GO)     (940                                )
(PR)(220)                         (R )   (D,107                                ) (F,LSTART  )
(PR)(230)         (X,CARD-NO )    (EQ)   (C,03                                 )
(PR)(240)                         (NS)     (260                                )
(PR)(245)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG1)  (LS) (53)  (C)
(PR)(250)                         (GO)     (940                                )
(PR)(260)                         (R )   (D,160                                ) (F,MSTART  )
(PR)(270)         (X,CARD-NO )    (EQ)   (C,04                                 )
(PR)(280)                         (NS)     (310                                )
(PR)(285)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG1)  (MS) (53)  (C)
(PR)(290)                         (GO)     (940                                )
(PR)(310)         (X,CARD-NO )    (EQ)   (C,05                                 )
(PR)(320)                         (NS)     (350                                )
(PR)(325)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG2)  ( 1) (53)  (C)
(PR)(330)                         (GO)     (940                                )
(PR)(350)         (X,CARD-NO )    (EQ)   (C,06                                 )
(PR)(360)                         (NS)     (390                                )
(PR)(365)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG2)  (54) (53)  (C)
(PR)(370)                         (GO)     (940                                )
(PR)(390)         (X,CARD-NO )    (EQ)   (C,07                                 )
(PR)(400)                         (NS)     (430                                )
(PR)(405)                         (R )   (X,DEF-SEG                            ) (T,DEFSTRG2)  (LS) (53)  (C)
(PR)(410)                         (GO)     (940                                )
(PR)(430)         (X,CARD-NO )    (EQ)   (C,08                                 )
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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(440)                         (NS)     (470                              )
(PR)(445)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG2)  (MS) (53) (C)
(PR)(450)                         (GO)     (940                              )
(PR)(470)         (X.CARD-NO )    (EQ)    (C.09                              )
(PR)(480)                         (NS)     (510                              )
(PR)(485)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG3)  ( 1) (53) (C)
(PR)(490)                         (GO)     (940                              )
(PR)(510)         (X.CARD-NO )    (EQ)    (C.10                              )
(PR)(520)                         (NS)     (550                              )
(PR)(525)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG3)  (54) (53) (C)
(PR)(530)                         (GO)     (940                              )
(PR)(550)         (X.CARD-NO )    (EQ)    (C.11                              )
(PR)(560)                         (NS)     (590                              )
(PR)(565)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG3)  (LS) (53) (C)
(PR)(570)                         (GO)     (940                              )
(PR)(590)         (X.CARD-NO )    (EQ)    (C.12                              )
(PR)(600)                         (NS)     (630                              )
(PR)(605)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG3)  (MS) (53) (C)
(PR)(610)                         (GO)     (940                              )
(PR)(630)         (X.CARD-NO )    (EQ)    (C.13                              )
(PR)(640)                         (NS)     (670                              )
(PR)(645)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG4)  ( 1) (53) (C)
(PR)(650)                         (GO)     (940                              )
(PR)(670)         (X.CARD-NO )    (EQ)    (C.14                              )
(PR)(680)                         (NS)     (710                              )
(PR)(685)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG4)  (54) (53) (C)
(PR)(690)                         (GO)     (940                              )
(PR)(710)         (X.CARD-NO )    (EQ)    (C.15                              )
(PR)(720)                         (NS)     (750                              )
(PR)(725)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG4)  (LS) (53) (C)
(PR)(730)                         (GO)     (940                              )
(PR)(750)         (X.CARD-NO )    (EQ)    (C.16                              )
(PR)(760)                         (NS)     (790                              )
(PR)(765)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG4)  (MS) (53) (C)
(PR)(770)                         (GO)     (940                              )
(PR)(790)         (X.CARD-NO )    (EQ)    (C.17                              )
(PR)(800)                         (NS)     (830                              )
(PR)(805)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG5)  ( 1) (53) (C)
(PR)(810)                         (GO)     (940                              )
(PR)(830)         (X.CARD-NO )    (EQ)    (C.18                              )
(PR)(840)                         (NS)     (880                              )
(PR)(850)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG5)  (54) (53) (C)
(PR)(860)                         (GO)     (940                              )
(PR)(880)         (X.CARD-NO )    (EQ)    (C.19                              )
(PR)(890)                         (NS)     (END                              )
(PR)(900)         (X.DEF-SEG )    (NE)    (C)                                                 (17) ( 4) (A)
(PR)(910)                         (NS)     (930                              )
(PR)(920)                         (R )    (C....                             )  (X.DEF-SEG )  (14) ( 3) (C)
(PR)(930)                         (R )    (X.DEF-SEG                         )  (T.DEFSTRG5)  (LS) (16) (C)
(PR)(940)                         (R )    (T.DEFSTRG1                        )    (DEFINITN)
(PR)(941)                         (R )    (D.212                             )  (F.RNUMBER )
(PR)(942)                         (R )    (D.211                             )  (F.MNUMBER )
(PR)(943)         (T.DEFSTRG1)    (EQ)    (C)                                                 (MN) ( 2) (A)
(PR)(947)                         (NS)     (950                              )
(PR)(948)           (DEFINITN)    (C2)    (T.DEFSTRG2                        )    (DEFINITN)
```

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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT          QLF FIELD NAME STRT NUMB OPR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(949)                         (GO)      (956                               )
(PR)(950)           (T,DEFSTRG1)  (EQ)   (C)                                                     (RN) ( 1) (A)
(PR)(952)                         (NS)      (955                               )
(PR)(953)             (DEFINITN)  (C1)   (T,DEFSTRG2                           )    (DEFINITN)
(PR)(954)                         (GO)      (956                               )
(PR)(955)             (DEFINITN)  (C0)   (T,DEFSTRG2                           )    (DEFINITN)
(PR)(956)           (T,DEFSTRG2)  (EQ)   (C)                                                     (MN) ( 2) (A)
(PR)(960)                         (NS)      (963                               )
(PR)(961)             (DEFINITN)  (C2)   (T,DEFSTRG3                           )    (DEFINITN)
(PR)(962)                         (GO)      (969                               )
(PR)(963)           (T,DEFSTRG2)  (EQ)   (C)                                                     (RN) ( 1) (A)
(PR)(965)                         (NS)      (968                               )
(PR)(966)             (DEFINITN)  (C1)   (T,DEFSTRG3                           )    (DEFINITN)
(PR)(967)                         (GO)      (969                               )
(PR)(968)             (DEFINITN)  (C0)   (T,DEFSTRG3                           )    (DEFINITN)
(PR)(969)           (T,DEFSTRG3)  (EQ)   (C)                                                     (MN) ( 2) (A)
(PR)(973)                         (NS)      (976                               )
(PR)(974)             (DEFINITN)  (C2)   (T,DEFSTRG4                           )    (DEFINITN)
(PR)(975)                         (GO)      (982                               )
(PR)(976)           (T,DEFSTRG3)  (EQ)   (C)                                                     (RN) ( 1) (A)
(PR)(978)                         (NS)      (981                               )
(PR)(979)             (DEFINITN)  (C1)   (T,DEFSTRG4                           )    (DEFINITN)
(PR)(980)                         (GO)      (982                               )
(PR)(981)             (DEFINITN)  (C0)   (T,DEFSTRG4                           )    (DEFINITN)
(PR)(982)           (T,DEFSTRG4)  (EQ)   (C)                                                     (MN) ( 2) (A)
(PR)(986)                         (NS)      (989                               )
(PR)(987)             (DEFINITN)  (C2)   (T,DEFSTRG5                           )    (DEFINITN)
(PR)(988)                         (GO)      (END                               )
(PR)(989)           (T,DEFSTRG4)  (EQ)   (C)                                                     (RN) ( 1) (A)
(PR)(991)                         (NS)      (994                               )
(PR)(992)             (DEFINITN)  (C1)   (T,DEFSTRG5                           )    (DEFINITN)
(PR)(993)                         (GO)      (END                               )
(PR)(994)             (DEFINITN)  (C0)   (T,DEFSTRG5                           )    (DEFINITN)
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                                        ******************************************
                                        *      DUMP OF CATALOGED REQUESTS        *
                                        * GROUP - EDA4UC05  REQUEST - EDA4FLGI  *
                                        ******************************************
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CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4FLGI:                                                    *****
COMMENT *****    EXECUTED AFTER ALL TRANSACTIONS HAVE BEEN APPLIED TO THE *****
COMMENT *****    MASTER RECORD.                                           *****
COMMENT *****       LINES 110-120 TEST FLAG FOR UNPAIRED SPELLING CHANGE  *****
COMMENT *****                     TRANSACTION                             *****
COMMENT *****       LINES 130-170 OUTPUT ERROR REPORT ENTRY               *****
COMMENT *****       LINE  180     SETS CONDITION CODE TO PREVENT UPDATE   *****
COMMENT *****       LINE  190     RESETS FLAG FOR NEXT RECORD             *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (T,CSFLG   )    (EQ)   (C,1                              )
(PR)(120)                         (NS)     (190                            )
(PR)(130)                         (R )   (C,CS                             )  (T,TRAN    )
(PR)(140)                         (R )   (O,TERM                           )  (T,TRAN    )  (26) (40) (C)
(PR)(150)                         (R )   (C,12I                            )  (T,ERRTYPE )
(PR)(155)                         (R )   (C,SPELLING CHANGE TRANSACTION NOT)  (T,MSG2    )
(PR)(160)         (T,MSG2    )    (C1)   (C,PAIRED OR CODE AND OLD SPELLING)  (T,MSG2    )
(PR)(165)         (T,MSG2    )    (C1)   (C,DO NOT MATCH                   )  (T,MSG2    )
(PR)(170)                         (GO)     (SUB EDA4TERR                   )
(PR)(180)                         (R )   (D,100                            )  (F,CONDCODE)
(PR)(190)                         (R )   (C)                                  (T,CSFLG   )
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                                   ****************************************
                                   *       DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4RC01  REQUEST - EDA4FMTC *
                                   ****************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                              MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK OR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID        ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                    (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4FMTC:                                                    *****
COMMENT *****    SUBROUTINE REQUEST PERFORMED ONLY WHEN CALLED.            *****
COMMENT *****    USED BY ALL ROUTINES THAT PRINT EITHER THE                *****
COMMENT *****    CLASSIFICATION CODE OR THE GLOSSARY STRUCTURE             *****
COMMENT *****    CODE.                                                     *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    THE CALLING ROUTINE MUST DEFINE A 30 CHARACTER            *****
COMMENT *****    FIELD CALLED CODEIN IN WHICH THE CODE TO BE               *****
COMMENT *****    FORMATED IS PASSED AND A 36 CHARACTER FIELD               *****
COMMENT *****    CALLED CODEOUT IN WHICH THE FORMATED CODE IS              *****
COMMENT *****    RETURNED.                                                 *****
COMMENT *****                                                              *****
COMMENT *****    THE REQUEST SCANS FOR BLANK LEVELS, CONCATENATING         *****
COMMENT *****    SECTIONS OF THE CODE WITH PERIODS TO IMPROVE              *****
COMMENT *****    THE READABILITY OF THE PRINTED CODE.                      *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )   (T,CODEIN                         )  (T,CODEOUT )  ( 1) ( 2) (B)
(PR)(120)          (T,CODEIN  )   (SN)   (P,B                              )                ( 3) ( 1) (A)
(PR)(125)                         (NS)     (240                            )
(PR)(130)          (T,CODEOUT )   (CO)   (C..                              )  (T,CODEOUT )
(PR)(140)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  ( 3) ( 4) (B)
(PR)(150)          (T,CODEIN  )   (SN)   (P,B                              )                ( 7) ( 1) (A)
(PR)(155)                         (NS)     (240                            )
(PR)(160)          (T,CODEOUT )   (CO)   (C..                              )  (T,CODEOUT )
(PR)(170)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  ( 7) ( 4) (B)
(PR)(180)          (T,CODEIN  )   (SN)   (P,B                              )                (11) ( 1) (A)
(PR)(185)                         (NS)     (240                            )
(PR)(190)          (T,CODEOUT )   (CO)   (C..                              )  (T,CODEOUT )
(PR)(200)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  (11) ( 4) (B)
(PR)(210)          (T,CODEIN  )   (SN)   (P,B                              )                (15) ( 1) (A)
(PR)(215)                         (NS)     (240                            )
(PR)(220)          (T,CODEOUT )   (CO)   (C..                              )  (T,CODEOUT )
(PR)(230)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  (15) ( 6) (B)
(PR)(240)          (T,CODEIN  )   (SN)   (P,B                              )                (21) ( 1) (A)
(PR)(250)                         (R )   (C..                              )  (T,CODEOUT )  (25) ( 1) (C)
(PR)(260)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  (21) ( 4) (B)
(PR)(270)          (T,CODEIN  )   (SN)   (P,B                              )                (25) ( 1) (A)
(PR)(280)          (T,CODEOUT )   (CO)   (C..                              )  (T,CODEOUT )
(PR)(290)          (T,CODEOUT )   (CO)   (T,CODEIN                         )  (T,CODEOUT )  (25) ( 6) (B)
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                                        **************************************
                                        *      DUMP OF CATALOGUED REQUESTS   *
                                        * GROUP - EDA4UC19  REQUEST - EDA4GCR *
                                        **************************************
----------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                        MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID                 ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE GLOSSARY RECONCILIATION AND GLOSSARY CHANGE REPORT      *****
COMMENT ***** FUNCTION AS PART OF THE CLASSIFICATION SCHEDULES UPDATE.    *****
COMMENT ***** THE SOURCE CODE IS CONTAINED IN A SINGLE REQUEST THAT       *****
COMMENT ***** UPDATES THE MASTER SOURCE TERM FILE AND PRODUCES AN         *****
COMMENT ***** UNSORTED REPORT.                                             *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    RESULT   -- TABLE LOOK-UP RESULT FIELD                    *****
COMMENT *****    TERM     -- REPORT FIELD                                  *****
COMMENT *****    TERM-ID  -- WORK FIELD USED TO CONVERT BINARY FIELD TO    *****
COMMENT *****                CHARACTER                                     *****
COMMENT ***** EDA4GCR :                                                    *****
COMMENT *****    LINES 110-120 TEST TO SEE IF CLASSIFICATION CODE WAS      *****
COMMENT *****                  DELETED OR CHANGED                          *****
COMMENT *****    LINE  130     UNCLASSIFIES THE SOURCE TERM                *****
COMMENT *****    LINES 140-170 CONCATENATE THE UNCLASSIFIED SOURCE TERM    *****
COMMENT *****                  AND TERM-ID FOR REPORTING                   *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
----------------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                        SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING                      73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(TF) (RESULT  ) (  1) (C)
(TF) (TERM    ) (162) (V)
(TF) (TERM-ID ) (  5) (C)
----------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR         73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(PR)(110)           (CODE      )   (TL)   (L,EDA4ACOD                     )  (T,RESULT  )  ( 1) (20) (A)
(PR)(120)         (T,RESULT    )   (EQ)   (T,RESULT                       )
(PR)(130)                          (R )   (C,999999999999999999999999999999 )  (N,CODE    )
(PR)(140)                          (R )     (TERM                         )  (T,TERM    )
(PR)(150)         (T,TERM      )   (C1)   (C,(                            )  (T,TERM    )
(PR)(154)                          (R )     (TERM-ID                      )  (T,TERM-ID )
(PR)(155)                          (JL)   (T,TERM-ID                      )  (T,TERM-ID )
(PR)(160)         (T,TERM      )   (C0)   (T,TERM-ID                      )  (T,TERM    )
(PR)(170)         (T,TERM      )   (C0)   (C,)                            )  (T,TERM    )
----------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RM .......SUBFILE........ C EMP                 SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME   BLK/ FMT M FLD                 73 TO 80
 UP     P              G            LT TYP POS          NUM     ML TO REC          BUF      B CTL
----------------------------------------------------------------------------------------------------------------------------
(E1)                                (X)
```

SOURCE CODE - 45

```
--------------------------------------------------------------------------------------------------------------
          SP  O         E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/MAT        P                PARTIAL
CARD SEQ  OF  L  FIELD  N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C    PICTURE     STRT NO     SEQUENCE
TYPE NO.  COL F  NAME   D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T     EDIT       CHR CHR     73 TO 80
--------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,TERM    )
--------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                SEQUENCE
TYPE  NO.                                         TEXT                                                   73 TO 80
--------------------------------------------------------------------------------------------------------------
(T1) (120)                     (SOURCE TERMS UNCLASSIFIED#                           )
(T1) (130)                     (DURING THIS RUN#                                     )
(T1)(140) (#)
(T1)(150) (#;
                                   **************************************
                                   *     DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4RG03  REQUEST - EDA4GLSC *
                                   **************************************

-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                       MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE SECOND MARK IV STEP OF THE GLOSSARY READS THE SORTED     *****
COMMENT ***** SUBFILE PRODUCED BY THE FIRST STEP.  DATA FROM THESE         *****
COMMENT ***** RECORDS ARE CONCATENATED TO FORM THE DEFINITION ENTRIES.     *****
COMMENT ***** EACH ENTRY IS REPORTED AS A VARIABLE LENGTH FIELD TO TAKE    *****
COMMENT ***** ADVANTAGE OF THE AUTOMATIC WRAP-AROUND CAPABILITY.  THE      *****
COMMENT ***** SOURCE CODE IS CONTAINED IN THREE REQUESTS:                  *****
COMMENT *****                                                              *****
COMMENT ***** EDA4GLSC CONCATENATES THE DATA FROM THE SUBFILE RECORDS.     *****
COMMENT ***** EDA4GLSR OUTPUTS THE GLOSSARY REPORT.                        *****
COMMENT ***** EDA4FMTC FORMATS CODES FOR PRINTING.                         *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****     CODE     -- CONTROL FIELD USED TO IDENTIFY FIRST RECORD  *****
COMMENT *****                 FOR NEW ENTRY                                *****
COMMENT *****     ALPHKEY  -- CONTROL FIELD USED TO IDENTIFY FIRST RECORD  *****
COMMENT *****                 FOR NEW ENTRY                                *****
COMMENT *****     CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING    *****
COMMENT *****                 ROUTINE                                      *****
COMMENT *****     CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE      *****
COMMENT *****     DEFENTRY -- REPORT FIELD FOR BODY OF DEFINITION ENTRY    *****
COMMENT *****     CVT      -- CONTROL BREAK FIELD TO IDENTIFY CLASSIFICA-  *****
COMMENT *****                 TION HEADING                                 *****
COMMENT *****     TERM-ID  -- WORK FIELD USED FOR CONVERSION TO CHARACTER  *****
COMMENT *****                 STRING                                       *****
COMMENT *****     DEF-SEQ  -- WORK FIELD USED FOR CONVERSION TO CHARACTER  *****
COMMENT *****                 STRING                                       *****
COMMENT *****     XREF-FLG -- FLAG USED TO SIGNAL FIRST CORSS-REFERENCE    *****
COMMENT *****                 RECORD                                       *****
COMMENT *****     MM       -- WORK FIELD USED TO SUPPRESS BLANK IN EDITION *****
COMMENT *****                 MONTH                                        *****
COMMENT ***** EDA4GLSC:                                                    *****
COMMENT *****     LINES 080-100 SET CLASSIFICATION HEADING FOR UNSTRUC-    *****
COMMENT *****                   TURED TERMS                                *****
COMMENT *****     LINES 110-120 TEST FOR FIRST RECORD READ AND BRANCH TO   *****
COMMENT *****                   INITIALIZATION                             *****
COMMENT *****     LINES 130-250 OUTPUT DEFINITON ENTRY WHEN KEY CHANGES    *****
COMMENT *****                   SIGNAL THE FIRST RECORD OF THE NEXT ENTRY  *****
COMMENT *****                   HAS BEEN READ.  AT THIS POINT, ANY STRING  *****
COMMENT *****                   OF CROSS-REFERENCES MUST BE CLOSED AND THE *****
COMMENT *****                   TERM ID ADDED TO ENTRY PRIOR TO OUTPUT     *****
COMMENT *****     LINES 260-410 INITIALIZE FIELDS FOR NEW ENTRY (RECORD    *****
COMMENT *****                   TYPES ONE AND TWO CONTAIN TERMS THAT       *****
COMMENT *****                   OCCUR IN THE CLASSIFICATION SCHEDULES)     *****
COMMENT *****     LINES 420-870 ADD DEFINITIONS TO THE REPORT ENTRY        *****
COMMENT *****     LINES 440-460 IDENTIFY PREFERRED DEFINITIONS             *****
COMMENT *****     LINES 470-540 INSERT THE SEQUENCE NUMBER FOR TERMS WITH  *****
COMMENT *****                   MULTIPLE DEFINITIONS                       *****
COMMENT *****     LINES 550-620 ADD THE TEXT OF THE DEFINITION             *****
COMMENT *****     LINES 630-680 SUPPRESS THE FINAL PERIOD ON DEFINITIONS   *****
COMMENT *****                  THAT DID NOT OVERFLOW THE FIELD             *****
COMMENT *****    LINES 690-760 FORMAT AND ADD THE SOURCE IDENTIFIER        *****
COMMENT *****    LINES 770-850 FORMAT AND ADD AN ADDITIONAL SOURCE IDEN-   *****
COMMENT *****                  TIFIER WHEN THE DEFINITION STATUS IS        *****
COMMENT *****                  REFERENCE ONLY (IE TWO OCCURRENCES WITH     *****
COMMENT *****                  THE SAME DEFINITION)                        *****
COMMENT *****    LINES 880-940 ADD THE FIRST CROSS-REFERENCE               *****
COMMENT *****    LINES 950-980 ADD ADDITIONAL CROSS-REFERENCES             *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL         LINE 1 OF        LINE 2 OF                          SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING                       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(TF) (CODE    ) ( 30) (C)
(TF) (ALPHKEY ) (  4) (F)          ( 5)
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
(TF) (DEFENTRY) (99H) (V)          (90)
(TF) (CVT     ) ( 40) (C)
(TF) (TERM-ID ) (  5) (C)
(TF) (DEF-SEQ ) (  2) (C)
(TF) (XREF-FLG) (  1) (C)
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT      QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(080)          (T,CODE    )   (EQ)   (C,99999999999999999999             )                 ( 1) (20) (A)
(PR)(090)                         (NS)     (110                              )
(PR)(100)                         (R )   (C,UNSTRUCTURED SOURCE TERMS        )  (T,CVT      )
(PR)(110)          (T,CODE    )   (NE)   (C)
(PR)(120)                         (NS)     (270                              )
(PR)(130)            (CODE    )   (NE)   (T,CODE                             )
(PR)(140)            (ALPHKEY )   (NE)   (T,ALPHKEY                          )
(PR)(150)                         (NS)     (420                              )
(PR)(160)          (T,TERM-ID )   (NE)   (D,0                                )
(PR)(170)                         (NS)     (250                              )
(PR)(180)          (T,XREF-FLG)   (EQ)   (C)
(PR)(190)                         (NS)     (220                              )
(PR)(200)          (T,DEFENTRY)   (C2)   (C,(                                )  (T,DEFENTRY)
(PR)(210)                         (GO)     (225                              )
(PR)(220)          (T,DEFENTRY)   (C0)   (C,.  (                             )  (T,DEFENTRY)
(PR)(225)                         (JL)   (T,TERM-ID                          )  (T,TERM-ID )
(PR)(230)          (T,DEFENTRY)   (C0)   (T,TERM-ID                          )  (T,DEFENTRY)
(PR)(240)          (T,DEFENTRY)   (C0)   (C,)                                )  (T,DEFENTRY)
(PR)(250)                         (GO)     (SUB EDA4GLSR                     )
(PR)(260)                         (R )   (C)                                    (T,XREF-FLG)
(PR)(270)                         (R )     (CODE                             )  (T,CODE    )
(PR)(280)                         (R )     (ALPHKEY                          )  (T,ALPHKEY )
(PR)(290)            (REC-TYPE)   (EQ)   (C,1                                )
(PR)(300)            (REC-TYPE)   (EQ)   (C,2                                )
(PR)(310)                         (NS)     (360                              )
(PR)(320)                         (R )     (DATA-OUT                         )  (T,CVT      )
(PR)(360)                         (R )     (TERM-ID                          )  (T,TERM-ID )
(PR)(370)                         (R )     (DATA-OUT                         )  (T,DEFENTRY)
(PR)(380)          (T,DEFENTRY)   (C0)   (C,.                                )  (T,DEFENTRY)
(PR)(390)                         (R )     (CODE                             )  (T,CODEIN  )
(PR)(400)                         (GO)     (SUB EDA4FMTC                     )
(PR)(410)                         (GO)     (END                              )
```

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----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR    73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(420)           (REC-TYPE)   (EQ)  (C,5                             )
(PR)(430)                        (NS)    (880                           )
(PR)(440)           (PREFERD )   (EQ)  (D,1                             )
(PR)(450)                        (NS)    (470                           )
(PR)(460)         (T,DEFENTRY)   (C2)  (C,*                             ) (T,DEFENTRY)
(PR)(470)           (DEF-SEQ )   (NE)  (D,0                             )
(PR)(480)                        (NS)    (550                           )
(PR)(485)                        (R )    (DEF-SEQ                       ) (T,DEF-SEQ )
(PR)(486)                        (JL)  (T,DEF-SEQ                       ) (T,DEF-SEQ )
(PR)(490)           (PREFERD )   (EQ)  (D,1                             )
(PR)(500)                        (NS)    (530                           )
(PR)(510)         (T,DEFENTRY)   (C0)  (T,DEF-SEQ                       ) (T,DEFENTRY)
(PR)(520)                        (GO)    (540                           )
(PR)(530)         (T,DEFENTRY)   (C2)  (T,DEF-SEQ                       ) (T,DEFENTRY)
(PR)(540)         (T,DEFENTRY)   (C0)  (C,--                            ) (T,DEFENTRY)
(PR)(550)          (STATUS  )    (NE)  (D,3                             )
(PR)(560)                        (NS)    (770                           )
(PR)(570)           (PREFERD )   (EQ)  (D,1                             )
(PR)(580)           (DEF-SEQ )   (NE)  (D,0                             )
(PR)(590)                        (NS)    (620                           )
(PR)(600)         (T,DEFENTRY)   (C0)    (DATA-OUT                      ) (T,DEFENTRY)
(PR)(610)                        (GO)    (630                           )
(PR)(620)         (T,DEFENTRY)   (C2)    (DATA-OUT                      ) (T,DEFENTRY)
(PR)(630)         (T,DEFENTRY)   (SL)  (P,#111#                         )
(PR)(640)                        (NS)    (650                           )
(PR)(650)         (F,LNUMBER )   (- )  (D,2                             ) (F,LSTART  )
(PR)(660)         (T,DEFENTRY)   (NE)  (C,...                           )               (LS) ( 3) (A)
(PR)(670)                        (NS)    (690                           )
(PR)(675)         (T,DEFENTRY)   (EQ)  (C,.                             )               (LN) ( 1) (A)
(PR)(676)                        (NS)    (690                           )
(PR)(680)                        (R )  (C)                                (T,DEFENTRY)  (LN) ( 1) (C)
(PR)(690)         (T,DEFENTRY)   (C1)  (C,(                             ) (T,DEFENTRY)
(PR)(695)           (SRC-TYPE)   (EQ)  (C,3                             )
(PR)(696)                        (NS)    (715                           )
(PR)(697)         (T,DEFENTRY)   (C0)    (SRC-ID                        ) (T,DEFENTRY)  ( 1) ( 4) (B)
(PR)(698)         (T,DEFENTRY)   (C1)    (SRC-ID                        ) (T,DEFENTRY)  ( 5) ( 8) (B)
(PR)(699)           (SRC-ID  )   (NE)  (C)                                              (13) ( 4) (A)
(PR)(700)                        (NS)    (860                           )
(PR)(701)         (T,DEFENTRY)   (C0)  (C,,                             ) (T,DEFENTRY)
(PR)(702)           (SRC-ID  )   (EQ)  (C,D                             )               (16) ( 1) (A)
(PR)(703)                        (NS)    (706                           )
(PR)(704)         (T,DEFENTRY)   (C1)  (C,D                             ) (T,DEFENTRY)
(PR)(705)                        (GO)    (860                           )
(PR)(706)           (SRC-ID  )   (JL)                                     (T,MM      )  (13) ( 2) (A)
(PR)(707)         (T,DEFENTRY)   (C1)  (T,MM                            ) (T,DEFENTRY)
(PR)(708)         [illegible]DEFENTRY)   (C0)  (C,/                             ) (T,DEFENTRY)
(PR)(709)         (T,DEFENTRY)   (C0)    (SRC-ID                        ) (T,DEFENTRY)  (15) ( 2) (B)
(PR)(710)                        (GO)    (860                           )
(PR)(715)           (SRC-TYPE)   (EQ)  (C,2                             )
(PR)(716)                        (NS)    (750                           )
(PR)(720)         (T,DEFENTRY)   (C0)  (C,45 CFR                        ) (T,DEFENTRY)
(PR)(730)         (T,DEFENTRY)   (C1)    (SRC-ID                        ) (T,DEFENTRY)
(PR)(740)                        (GO)    (860                           )
(PR)(750)         (T,DEFENTRY)   (C0)    (SRC-ID                        ) (T,DEFENTRY)
(PR)(760)                        (GO)    (860                           )
```

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------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A... OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME  ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(770)          (T,DEFENTRY)   (SL)   (P,#111#                          )
(PR)(780)                         (NS)     (790                            )
(PR)(790)          (F,LNUMBER )   (- )   (D,1                              )  (F,LSTART  )
(PR)(800)                         (R )   (C)                                  (T,DEFENTRY)  (LS) ( 2) (C)
(PR)(810)          (T,DEFENTRY)   (C0)   (C,,                              )  (T,DEFENTRY)
(PR)(815)            (SRC-TYPE)   (EQ)   (C,3                              )
(PR)(816)                         (NS)     (835                            )
(PR)(817)          (T,DEFENTRY)   (C1)     (SRC-ID                         )  (T,DEFENTRY)  ( 1) ( 4) (B)
(PR)(818)          (T,DEFENTRY)   (C1)     (SRC-ID                         )  (T,DEFENTRY)  ( 5) ( 8) (B)
(PR)(819)            (SRC-ID  )   (NE)   (C)                                                (13) ( 4) (A)
(PR)(820)                         (NS)     (860                            )
(PR)(821)          (T,DEFENTRY)   (C0)   (C,,                              )  (T,DEFENTRY)
(PR)(822)            (SRC-ID  )   (EQ)   (C,D                              )                (16) ( 1) (A)
(PR)(823)                         (NS)     (826                            )
(PR)(824)          (T,DEFENTRY)   (C1)   (C,D                              )  (T,DEFENTRY)
(PR)(825)                         (GO)     (860                            )
(PR)(826)            (SRC-ID  )   (JL)                                        (T,MM      )  (13) ( 2) (A)
(PR)(827)          (T,DEFENTRY)   (C1)   (T,MM                             )  (T,DEFENTRY)
(PR)(828)          (T,DEFENTRY)   (C0)   (C,/                              )  (T,DEFENTRY)
(PR)(829)          (T,DEFENTRY)   (C0)     (SRC-ID                         )  (T,DEFENTRY)  (15) ( 2) (B)
(PR)(830)                         (GO)     (860                            )
(PR)(835)            (SRC-TYPE)   (EQ)   (C,2                              )
(PR)(836)                         (NS)     (850                            )
(PR)(840)          (T,DEFENTRY)   (C1)   (C,45 CFR                         )  (T,DEFENTRY)
(PR)(850)          (T,DEFENTRY)   (C1)     (SRC-ID                         )  (T,DEFENTRY)
(PR)(860)          (T,DEFENTRY)   (C0)   (C,).                             )  (T,DEFENTRY)
(PR)(870)                         (GO)     (END                            )
(PR)(880)            (REC-TYPE)   (EQ)   (C,8                              )
(PR)(890)     (A)  (T,XREF-FLG)   (EQ)   (C)
(PR)(900)                         (NS)     (950                            )
(PR)(910)          (T,DEFENTRY)   (C2)   (C,SEE ALSO                       )  (T,DEFENTRY)
(PR)(920)          (T,DEFENTRY)   (C1)     (DATA-OUT                       )  (T,DEFENTRY)
(PR)(930)                         (R )   (C,1                              )  (T,XREF-FLG)
(PR)(940)                         (GO)     (END                            )
(PR)(950)            (REC-TYPE)   (EQ)   (C,8                              )
(PR)(960)     (A)  (T,XREF-FLG)   (NE)   (C)
(PR)(970)          (T,DEFENTRY)   (C0)   (C,,                              )  (T,DEFENTRY)
(PR)(980)          (T,DEFENTRY)   (C1)     (DATA-OUT                       )  (T,DEFENTRY)
```

```
                                            ********************************************
                                            *      DUMP OF CATALOGED REQUESTS         *
                                            * GROUP - EDA4RG03  REQUEST - EDA4GLSR    *
                                            ********************************************
------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                     MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                           (S)
COMMENT ***** ******************************************************************* *****
COMMENT *****                                                                   *****
COMMENT ***** TEMPORARY FIELDS:                                                 *****
COMMENT *****    BLANK    -- DUMMY FIELD USED TO SPACE REPORT ENTRIES           *****
COMMENT *****                                                                   *****
COMMENT ***** EDA4GLSR:                                                         *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  OUTPUTS         *****
COMMENT *****    THE GLOSSARY.                                                  *****
COMMENT *****                                                                   *****
COMMENT ***** ******************************************************************* *****
------------------------------------------------------------------------------------------------------------------------------------
CARD    FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL           LINE 1 OF          LINE 2 OF                        SEQUENCE
TYPE    NAME      LNGTH TYP PLC EDIT  LGTH        VALUE          COLUMN HEADING     COLUMN HEADING                     73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(TF)  (BLANK    ) (  1) (C)
------------------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP                    SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD                    73 TO 80
 DP     P               G             LT TYP POS         NUM      ML TD REC            BUF      B CTL
------------------------------------------------------------------------------------------------------------------------------------
(E1)                          (56)         (X)      (LL,LR)
------------------------------------------------------------------------------------------------------------------------------------
          SP  Q                   E   N   S   D   C   S    T   C   C   M   M   A D Q PCT/RAT        P                 PARTIAL
CARD SEQ  BF  L  FIELD            N   P   E   E   T   U    O   U   N   A   I   V E L  FIELD   RA-  C     PICTURE     STRT NO        SEQUENCE
TYPE NO.  COL F  NAME             D   R   Q   S   L   B    T   M   T   X   N   G C F  NAME    TIO  T      EDIT       CHR CHR        73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(R1)(110)     (T,CVT      )             (1)(S)
(R1)(120)(  3)(T,CODEOUT  )
(R1)(130)(  0)(T,TERM-ID  )    (Y)
(R1)(140)(  2)(T,DEFENTRY)(Y)
(R1)(150)     (T,BLANK    )
```

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                              ****************************************
                              *       DUMP OF CATALOGED REQUESTS     *
                              * GROUP - EDA4UT04  REQUEST - EDA4GNRD *
                              ****************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (2)
COMMENT ***** ************************************************************* *****
COMMENT *****                                                               *****
COMMENT ***** TEMPORARY FIELDS:                                             *****
COMMENT *****    DEL-MFLG -- FLAG USED TO SUPPRESS MULTIPLE PRINTING OF     *****
COMMENT *****                LEAD-IN ENTRY REFERENCE ON CHANGE REPORT       *****
COMMENT *****    TEMPTERM -- WORK FIELD USED TO HOLD TRANSACTION TERM       *****
COMMENT *****                WHILE BUILDING "DF" TRANSACTION FOR OUTPUT     *****
COMMENT *****    TRAN-ID  -- OUTPUT FIELD FOR GENERATED TRANSACTION         *****
COMMENT *****    TRANCODE -- OUTPUT FIELD FOR GENERATED TRANSACTION         *****
COMMENT *****    TRANTERM -- OUTPUT FIELD FOR GENERATED TRANSACTION         *****
COMMENT *****                                                               *****
COMMENT ***** EDA4GNRD:                                                     *****
COMMENT *****    EXECUTES AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH   *****
COMMENT *****    MASTER FILE.                                               *****
COMMENT *****       LINES 010-060 CREATE RECIPROCAL FOR "DF"                *****
COMMENT *****       LINES 070-130 CREATE RECIPROCAL FOR DELETIONS OR        *****
COMMENT *****                     CHANGES TO LEAD-IN ENTRY                  *****
COMMENT *****       LINES 150-180 INITIALIZE "DR" RECIPROCAL                *****
COMMENT *****       LINES 190-220 INITIALIZE "DB" RECIPROCAL                *****
COMMENT *****       LINES 230-250 INITIALIZE "DN" RECIPROCAL                *****
COMMENT *****       LINES 290-300 MOVE REMAINDER OF DATA TO OUTPUT FIELDS   *****
COMMENT *****       LINE  310     CALLS OUTPUT ROUTINE                      *****
COMMENT *****       LINES 320-330 REPLACES TRANSACTION TERM IN LEAD-IN      *****
COMMENT *****                     CHANGE TRANSACTION                        *****
COMMENT *****                                                               *****
COMMENT ***** ************************************************************* *****
-----------------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL         LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH       VALUE        COLUMN HEADING   COLUMN HEADING                   73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(TF) (DEL-MFLG) (  1) (C)
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(010)         (X,TRAN-ID )    (EQ)   (C,DF                               )
(PR)(020)                         (NS)     (070                              )
(PR)(030)                         (R )   (C,DL                               )  (T,TRAN-ID )
(PR)(040)                         (R )   (X,TERM                             )  (T,TRANCODE)  ( 1) (20) (B)
(PR)(050)                         (R )   (C)                                    (T,TRANTERM)
(PR)(060)                         (GO)     (310                              )
(PR)(070)         (X,TRAN-ID )    (EQ)   (C,DL                               )
(PR)(071)                         (NS)     (075                              )
(PR)(072)                         (GO)     (090                              )
(PR)(075)         (X,TRAN-ID1)    (EQ)   (C,M                                )
(PR)(076)     (A) (T,DEL-MFLG)    (EQ)   (C)
(PR)(080)                         (NS)     (150                              )
(PR)(085)                         (R )   (C,1                                )  (T,DEL-MFLG)
(PR)(090)            (LE-SEG  )   (FS)
(PR)(100)            (LEREFTYP)   (EQ)   (C,U                                )
```

```
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(105)                          (R )   (X,TERM                            )  (T,TEMPTERM)
(PR)(110)                          (R )     (LE-REF                          )  (X,TERM    )
(PR)(120)                          (R )   (C,DF                              )  (T,TRAN-ID )
(PR)(130)                          (GO)     (290                             )
(PR)(150)          (X,TRAN-ID )    (EQ)   (C,DR                              )
(PR)(160)                          (NS)     (190                             )
(PR)(170)                          (R )   (X,TRAN-ID                         )  (T,TRAN-ID )
(PR)(180)                          (GO)     (290                             )
(PR)(190)          (X,TRAN-ID )    (EQ)   (C,DB                              )
(PR)(200)                          (NS)     (230                             )
(PR)(210)                          (R )   (C,DN                              )  (T,TRAN-ID )
(PR)(220)                          (GO)     (290                             )
(PR)(230)          (X,TRAN-ID )    (EQ)   (C,DN                              )
(PR)(250)                          (R )   (C,DB                              )  (T,TRAN-ID )
(PR)(290)                          (R )   (I,CODE                            )  (T,TRANCODE)
(PR)(300)                          (R )     (TERM                            )  (T,TRANTERM)
(PR)(310)                          (GO)     (SUB EDA4GTRN                    )
(PR)(320)          (X,TRAN-ID1)    (EQ)   (C,M                               )
(PR)(330)                          (R )   (T,TEMPTERM                        )  (X,TERM    )
```

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                                   ****************************************
                                   *       DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4UT04  REQUEST - EDA4GNRR *
                                   ****************************************

--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                          (2)
COMMENT ***** ******************************************************** *****
COMMENT *****                                                          *****
COMMENT ***** TEMPORARY FIELDS:                                        *****
COMMENT *****    TRAN-ID  -- OUTPUT FIELD FOR GENERATED TRANSACTION    *****
COMMENT *****    TRANCODE -- OUTPUT FIELD FOR GENERATED TRANSACTION    *****
COMMENT *****    TRANTERM -- OUTPUT FIELD FOR GENERATED TRANSACTION    *****
COMMENT *****                                                          *****
COMMENT ***** EDA4GNRR:                                                *****
COMMENT *****    EXECUTES AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****    MASTER FILE.                                          *****
COMMENT *****       LINES 110-190 CREATE RECIPROCAL TRANSACTIONS FOR   *****
COMMENT *****                     "UF" (NOTE:  TWO ARE NECESSARY IN THIS *****
COMMENT *****                     CASE, AN "LE" AND AN "MU".)          *****
COMMENT *****       LINES 200-230 INITIALIZE RECIPROCAL FOR "UR"       *****
COMMENT *****       LINES 240-261 INITIALIZE RECIPROCAL FOR "RT"       *****
COMMENT *****       LINES 262-266 INITIALIZE RECIPROCAL FOR "BR"       *****
COMMENT *****       LINES 267-268 INITIALIZE RECIPROCAL FOR "NR"       *****
COMMENT *****       LINES 270-280 MOVE REMAINDER OF FIELDS FOR CONTROLLED *****
COMMENT *****                     VOCABULARY RECIPROCALS               *****
COMMENT *****       LINE  290     CALLS OUTPUT ROUTINE                 *****
COMMENT *****                                                          *****
COMMENT ***** ******************************************************** *****
--------------------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF         LINE 2 OF                   SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING    COLUMN HEADING                 73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(TF) (TRAN-ID ) (  2) (C)
(TF) (TRANCODE) ( 23) (C)
(TF) (TRANTERM) ( 55) (C)
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,UF                                )
(PR)(120)                         (NS)     (200                               )
(PR)(130)                         (R )   (C,LE                                )  (T,TRAN-ID )
(PR)(140)                         (R )   (X,TERM                              )  (T,TRANCODE)  ( 1) (20) (B)
(PR)(150)                         (R )   (X,TERM                              )  (T,TRANTERM)
(PR)(160)                         (GO)     (SUB EDA4GTRN                      )
(PR)(170)                         (R )   (C,MU                                )  (T,TRAN-ID )
(PR)(180)                         (R )     (TERM                              )  (T,TRANTERM)
(PR)(190)                         (GO)     (290                               )
(PR)(200)          (X,TRAN-ID )   (EQ)   (C,UR                                )
(PR)(210)                         (NS)     (240                               )
(PR)(220)                         (R )   (C,UF                                )  (T,TRAN-ID )
(PR)(230)                         (GO)     (270                               )
(PR)(240)          (X,TRAN-ID )   (EQ)   (C,RT                                )
(PR)(250)                         (NS)     (262                               )
(PR)(260)                         (R )   (X,TRAN-ID                           )  (T,TRAN-ID )
(PR)(261)                         (GO)     (270                               )
```

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--------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...    OPER    ............OPERAND B..............   ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME     ATN    QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR        73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(PR)(262)           (X,TRAN-ID )    (EQ)    (C,BR                                 )
(PR)(263)                           (NS)      (267                                )
(PR)(264)                           (R )    (C,NR                                 )  (T,TRAN-ID )
(PR)(266)                           (GO)      (270                                )
(PR)(267)           (X,TRAN-ID )    (EQ)    (C,NR                                 )
(PR)(268)                           (R )    (C,BR                                 )  (T,TRAN-ID )
(PR)(270)                           (R )    (1,CODE                               )  (T,TRANCODE)
(PR)(280)                           (R )      (TERM                               )  (T,TRANTERM)
(PR)(290)                           (GO)      (SUB EDA4GTRN                       )
```

SOURCE CODE - 55

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                                             ****************************************
                                             *       DUMP OF CATALOGED REQUESTS     *
                                             * GROUP - EDA4US04  REQUEST - EDA4GSCK *
                                             ****************************************
---------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (2)                    (Y)
---------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT       INITIAL         LINE 1 OF         LINE 2 OF                       SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH        VALUE       COLUMN HEADING   COLUMN HEADING                      73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(TF)  (CVT      ) ( 40) (C)
(TF)  (CORD-FLG) (  1) (C)
(TF)  (GSC-DFLG) (  1) (C)
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(110)            (TERM     )  (EQ)     (TERM                          )
(PR)(120)        (A)  (X,TRAN-ID )  (EQ)   (C,GC                            )
(PR)(130)                         (R )   (1,CODE                          )  (T,CORD    )
(PR)(140)           (F,ECORD    )  (EQ)   (C,M                             )                ( 1) ( 1) (A)
(PR)(150)                         (NS)     (320                           )
(PR)(160)             (TERM     )  (EQ)   (C)                                                (41) ( 5) (A)
(PR)(170)                         (NS)     (290                           )
(PR)(180)                         (R )     (TERM                          )  (T,CVT     )  ( 1) (40) (B)
(PR)(190)                         (R )   (2,TERM                          )  (T,CORD    )
(PR)(200)           (F,ECORD    )  (EQ)   (C,M                             )                ( 2) ( 1) (A)
(PR)(210)                         (NS)     (290                           )
(PR)(220)           (X,CS       )  (EQ)   (2,CODE                          )
(PR)(230)                         (NS)     (270                           )
(PR)(240)           (X,GS       )  (NE)   (C)
(PR)(250)                         (R )   (C,3                             )  (T,GSC-DFLG)
(PR)(260)                         (GO)     (330                           )
(PR)(270)                         (R )   (C,2                             )  (T,GSC-DFLG)
(PR)(280)                         (GO)     (330                           )
(PR)(290)           (X,GS       )  (EQ)   (C)
(PR)(300)                         (R )   (C,4                             )  (T,GSC-DFLG)
(PR)(310)                         (GO)     (330                           )
(PR)(320)                         (R )   (C,1                             )  (T,GSC-DFLG)
(PR)(330)                         (R )   (D,4                             )  (F,DELETE  )
```

56 - SOURCE CODE

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                                  ******************************************
                                  *       DUMP OF CATALOGED REQUESTS       *
                                  * GROUP - EDA4RD01  REQUEST - EDA4GSDI *
                                  ******************************************

-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL  SUM  VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID             ITEMS CTL RPT   SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                                          (   14)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4GSDI:                                                    *****
COMMENT *****    FUNCTIONS AS A LOOP WHICH MAY BE PERFORMED UP TO 14       *****
COMMENT *****    TIMES.  CALCULATES INDENTATION AND WIDTH OF PRINTED       *****
COMMENT *****    TERM.  CALLS WRAP-AROUND SUBROUTINE.                      *****
COMMENT *****       LINES 100-105 EXECUTE ONLY WHEN A COORDINATED RECORD   *****
COMMENT *****                     IS AVAILABLE                             *****
COMMENT *****       LINE  110     EXECUTES ONLY FOR LEVEL TWO OR HIGHER    *****
COMMENT *****                     (LEVELS 0 AND 1 ARE PRINTED BY           *****
COMMENT *****                     EDA4GSDP)                                *****
COMMENT *****       LINES 120-140 CALCULATE NEXT INDENTATION               *****
COMMENT *****       LINES 150-160 TEST FOR END OF LOOP                     *****
COMMENT *****       LINE  170     CALLS WRAP-AROUND                        *****
COMMENT *****       LINE  180     PRINTS LAST LINE                         *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(100)         (F,ECORD   )    (NE)   (C,XX                               )                ( 1) ( 2) (A)
(PR)(105)                         (NS)     (END                              )
(PR)(110)         (T,LEVEL   )    (GE)   (D,2                                )
(PR)(120)         (T,LEVELTST)    (+ )   (D,1                                )  (T,LEVELTST)
(PR)(130)         (T,PARTIALS)    (+ )   (D,2                                )  (T,PARTIALS)
(PR)(140)         (T,PARTIALN)    (- )   (D,2                                )  (T,PARTIALN)
(PR)(150)         (T,LEVEL   )    (EQ)   (T,LEVELTST                         )
(PR)(160)                         (NS)     (REQUEST EDA4GSDI                 )
(PR)(170)                         (GO)     (SUB EDA4GSDS                     )
(PR)(180)                         (GO)     (SUB EDA4GSDR                     )
```

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                                              ****************************************
                                              *      DUMP OF CATALOGED REQUESTS      *
                                              * GROUP - EDA4RD01  REQUEST - EDA4GSDP *
                                              ****************************************

------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL  SUM  VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL  RPT   SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                                          (Y)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** THE GLOSSARY STRUCTURE DISPLAY IS PRODUCED USING            *****
COMMENT ***** THE CLASSIFICATION SCHEDULES FILE AND THE MASTER            *****
COMMENT ***** SOURCE TERM FILE ALONG WITH A DUMMY MASTER FILE             *****
COMMENT ***** TO SIMPLIFY MATCHING BETWEEN THE TWO FILES. (IF THE         *****
COMMENT ***** CLASSIFICATION SCHEDULES WERE USED AS THE MASTER            *****
COMMENT ***** FILE, SPECIAL FLAGS WOULD HAVE TO BE SET TO                 *****
COMMENT ***** DIFFERENTIATE BETWEEN A NON-MATCH CONDITION AND THE         *****
COMMENT ***** EXTRA PASS MADE AT THE END OF EACH COORDINATION             *****
COMMENT ***** CYCLE.)  EXTENDED FILE PROCESSING IS USED TO ACCESS         *****
COMMENT ***** UNMATCHED RECORDS FROM EITHER FILE.  THE SOURCE             *****
COMMENT ***** CODE IS CONTAINED IN FIVE REQUESTS:                         *****
COMMENT *****                                                             *****
COMMENT ***** EDA4GSDP PERFORMS THE INITIAL SET-UP FUNCTIONS              *****
COMMENT ***** EDA4GSDI PERFORMS A LOOP TO INDENT THE TERM                 *****
COMMENT ***** EDA4GSDS PERFORMS THE WRAP-AROUND FOR LONG TERMS            *****
COMMENT ***** EDA4GSDR PRINTS THE REPORT                                  *****
COMMENT ***** EDA4FMTC FORMATS THE CODE FOR PRINTING                      *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    CODEIN   -- WORK FIELD PASSED TO CODE FORMATING          *****
COMMENT *****                SUBROUTINE                                   *****
COMMENT *****    CODEOUT  -- WORK FIELD RETURNED BY CODE                  *****
COMMENT *****                FORMATING SUBROUTINE                         *****
COMMENT *****    TERM     -- WORK FIELD PASSED TO WRAP-AROUND SUBROUTINE  *****
COMMENT *****    ALPHKEY  -- SORT FIELD TO REPORT TERMS ALPHABETICALLY    *****
COMMENT *****    LINEND   -- SORT FIELD FOR REPORT USED TO SEQUENCE       *****
COMMENT *****                MULTI-LINE ENTRIES                           *****
COMMENT *****    CODEPRNT -- PORTION OF PRINT LINE CONTAINING THE CODE    *****
COMMENT *****    TERMPRNT -- PORTION OF PRINT LINE CONTAINING THE TERM    *****
COMMENT *****    TEMP-SCN -- WORK FIELD USED TO SPLIT TERM FOR WRAP-      *****
COMMENT *****                AROUND                                       *****
COMMENT *****    LEVEL    -- WORK FIELD HOLDING THE CALCULATED LEVEL OF  *****
COMMENT *****                CLASSIFICATION                               *****
COMMENT *****    C155     -- CONSTANT USED TO CALCULATE THE LENGTH OF THE *****
COMMENT *****                LAST PORTION OF THE TERM                     *****
COMMENT *****    PARTIALS -- WORK FIELD USED TO CALCULATE THE START       *****
COMMENT *****                POSITION FOR INDENTING THE TERM              *****
COMMENT *****    PARTIALN -- WORK FIELD USED TO CALCULATE THE WIDTH OF    *****
COMMENT *****                THE PRINTED TERM FIELD                       *****
COMMENT *****    LEVELTST -- WORK FIELD USED TO CONTROL LOOPING           *****
COMMENT *****                                                             *****
COMMENT ***** EDA4GSDP:                                                   *****
COMMENT *****       LINES 110-120 COORDINATE FILES                        *****
COMMENT *****       LINES 130-170 IF THE NEXT SEQUENTIAL RECORD IS A      *****
COMMENT *****                     SOURCE TERM, INITIALIZE FIELDS          *****
COMMENT *****       LINES 180-220 IF THE NEXT SEQUENTIAL RECORD IS A      *****
COMMENT *****                     CONTROLLED VOCABULARY TERM, INITIALIZE  *****
COMMENT *****                     FIELDS ACCORDINGLY                      *****
COMMENT *****       LINES 230-240 FORMAT CODE AND PLACE IN OUTPUT BUFFER  *****
COMMENT *****      LINES 250-420 IF TERM IS A SOURCE TERM, CLOSE        *****
COMMENT *****                    PARENTHESES AND CALCULATE LEVEL OF      *****
COMMENT *****                    INDENTATION DUE TO GLOSSARY STRUCTURE   *****
COMMENT *****                    PORTION OF CODE                         *****
COMMENT *****      LINES 430-690 CALCULATE LEVEL OF INDENTATION DUE TO   *****
COMMENT *****                    CLASSIFICATION PORTION OF CODE          *****
COMMENT *****      LINES 700-770 PRINT FIRST TWO LEVELS (THESE LEVELS    *****
COMMENT *****                    CAN ONLY CONTAIN CONTROLLED VOCABULARLY *****
COMMENT *****                    TERMS, SO NEED NOT BE CHECKED FOR WRAP- *****
COMMENT *****                    AROUND)                                 *****
COMMENT *****                                                            *****
COMMENT ***** ********************************************************** *****
-----------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT    INITIAL         LINE 1 OF       LINE 2 OF                     SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH     VALUE        COLUMN HEADING  COLUMN HEADING                  73 TO 80
-----------------------------------------------------------------------------------------------------------------
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
(TF) (TERM    ) (154) (C)
(TF) (LINENO  ) (  1) (C)              (1              )
(TF) (CODEPRNT) ( 38) (C)
(TF) (TERMPRNT) ( 92) (C)
(TF) (SPACE-10) ( 10) (C)
(TF) (SPACE-20) ( 20) (C)
(TF) (TEMP-SCN) ( 88) (C)
(TF) (LEVEL   ) (  2) (F)         ( 2) (0              )
(TF) (C155    ) (  2) (F)         ( 3) (155            )
(TF) (PARTIALS) (  2) (F)         ( 3) (3              )
(TF) (PARTIALN) (  2) (F)         ( 3) (90             )
(TF) (LEVELTST) (  2) (F)         ( 2) (1              )
-----------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-----------------------------------------------------------------------------------------------------------------
(PR)(110)                       (R )   (1,CODE                         )  (T,CODEIN  )
(PR)(120)                       (R )   (2,CODE                         )  (T,CODEIN  )
(PR)(130)         (F,ECORD   )  (EQ)   (C,XL                           )               ( 1) ( 2) (A)
(PR)(140)                       (NS)     (180                          )
(PR)(150)                       (R )   (2,TERM                         )  (T,TERM    )
(PR)(160)                       (R )   (C,(                            )  (T,CODEPRNT)
(PR)(170)                       (GO)     (230                          )
(PR)(180)         (F,ECORD   )  (EQ)   (C,LL                           )               ( 1) ( 2) (A)
(PR)(190)         (F,ECORD   )  (EQ)   (C,LX                           )               ( 1) ( 2) (A)
(PR)(200)                       (R )   (1,TERM                         )  (T,TERM    )
(PR)(210)                       (R )   (C)                                (T,CODEPRNT)
(PR)(220)                       (R )   (1,CODE                         )  (T,CODEIN  )
(PR)(230)                       (GO)     (SUB EDA4FMTC                 )
(PR)(240)                       (R )   (T,CODEOUT                      )  (T,CODEPRNT) ( 2) (36) (C)
(PR)(250)         (T,CODEPRNT)  (EQ)   (C,(                            )               ( 1) ( 1) (A)
(PR)(260)                       (NS)     (430                          )
(PR)(270)         (T,CODEPRNT)  (CO)   (C,)                            )  (T,CODEPRNT)
(PR)(300)         (T,LEVEL   )  (+ )   (D,2                            )  (T,LEVEL   )
(PR)(310)         (T,CODEIN  )  (NE)   (C)                                             (23) ( 2) (A)
(PR)(320)                       (NS)     (430                          )
(PR)(330)         (T,LEVEL   )  (+ )   (D,1                            )  (T,LEVEL   )
(PR)(340)         (T,CODEIN  )  (NE)   (C)                                             (25) ( 2) (A)
(PR)(350)                       (NS)     (430                          )
(PR)(360)         (T,LEVEL   )  (+ )   (D,1                            )  (T,LEVEL   )
(PR)(370)         (T,CODEIN  )  (NE)   (C)                                             (27) ( 2) (A)
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-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR        73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(380)                         (NS)     (430                            )
(PR)(390)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(400)         (T,CODEIN   )   (NE)   (C)                                                (29) ( 2) (A)
(PR)(410)                         (NS)     (430                            )
(PR)(420)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(430)         (T,CODEIN   )   (NE)   (C)                                                ( 3) ( 2) (A)
(PR)(440)                         (NS)     (700                            )
(PR)(450)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(460)         (T,CODEIN   )   (NE)   (C)                                                ( 5) ( 2) (A)
(PR)(470)                         (NS)     (700                            )
(PR)(480)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(490)         (T,CODEIN   )   (NE)   (C)                                                ( 7) ( 2) (A)
(PR)(500)                         (NS)     (700                            )
(PR)(510)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(520)         (T,CODEIN   )   (NE)   (C)                                                ( 9) ( 2) (A)
(PR)(530)                         (NS)     (700                            )
(PR)(540)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(550)         (T,CODEIN   )   (NE)   (C)                                                (11) ( 2) (A)
(PR)(560)                         (NS)     (700                            )
(PR)(570)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(580)         (T,CODEIN   )   (NE)   (C)                                                (13) ( 2) (A)
(PR)(590)                         (NS)     (700                            )
(PR)(600)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(610)         (T,CODEIN   )   (NE)   (C)                                                (15) ( 2) (A)
(PR)(620)                         (NS)     (700                            )
(PR)(630)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(640)         (T,CODEIN   )   (NE)   (C)                                                (17) ( 2) (A)
(PR)(650)                         (NS)     (700                            )
(PR)(660)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(670)         (T,CODEIN   )   (NE)   (C)                                                (19) ( 2) (A)
(PR)(680)                         (NS)     (700                            )
(PR)(690)         (T,LEVEL    )   (+ )   (D,1                              ) (T,LEVEL    )
(PR)(700)         (T,LEVEL    )   (EQ)   (D,0                              )
(PR)(710)                         (NS)     (740                            )
(PR)(720)                         (R )   (T,TERM                           ) (T,TERMPRNT)
(PR)(730)                         (GO)     (770                            ;
(PR)(740)         (T,LEVEL    )   (EQ)   (D,1                              )
(PR)(750)                         (NS)     (REQUEST EDA4GSDI               )
(PR)(760)                         (R )   (T,TERM                           ) (T,TERMPRNT)  ( 3) (40) (C)
(PR)(770)                         (GO)     (SUB EDA4GSDR                   )
```

```
                                           ****************************************
                                           *      DUMP OF CATALOGED REQUESTS      *
                                           * GROUP - EDA4HD01  REQUEST - EDA4GSDR *
                                           ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                      MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                            (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4GSDR:                                                    *****
COMMENT *****    SUBROUTINE REQUEST PERFORMED ONLY WHEN CALLED.            *****
COMMENT *****    OUTPUTS REPORT LINES FOR GLOSSARY STRUCTURE DISPLAY.      *****
COMMENT *****    THE NON-PRINT FIELDS ARE USED TO SEQUENCE THE REPORT      *****
COMMENT *****    LINES.                                                    *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP              SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD              73 TO 80
 DP     P              G             LT TYP POS         NUM      HL TD REC           BUF      B CTL
-------------------------------------------------------------------------------------------------------------------------
(E1)                       (56)        (X)     (LL,LR)
-------------------------------------------------------------------------------------------------------------------------
          SP  Q               E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT     P                PARTIAL
CARD SEQ  BF  L  FIELD        N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA- C     PICTURE    STRT NO      SEQUENCE
TYPE NO.  COL F  NAME         D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO T      EDIT      CHR CHR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,CODEIN  )    (Y)(1)
(R1)(120)( 0)(T,TERM    )    (Y)(2)                                                               ( 1)(98)
(R1)(125)( 0)(T,TERM    )    (Y)(3)                                                               (99)(56)
(R1)(130)( 0)(T,LINENO  )    (Y)(4)
(R1)(140)( 0)(T,CODEPRNT)
(R1)(150)( 2)(T,TERMPRNT)
-------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                    SEQUENCE
TYPE  NO.                                                      TEXT                                          73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(T1) (160)                   (GLOSSARY STRUCTURE DISPLAY#                              )
(T1)(170) (#)
(T1)(180) (#)
```

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                         ****************************************
                         *       DUMP OF CATALOGED REQUESTS     *
                         * GROUP - EDA4HD01  REQUEST - EDA4GSDS *
                         ****************************************
-------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                       (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4GSDS:                                                    *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  PERFORMS   *****
COMMENT *****    WRAP-AROUND OF TERMS THAT EXCEED THE PRINT WIDTH.  CALLS *****
COMMENT *****    SUBROUTINE TO PRINT INTERMEDIATE LINES.                   *****
COMMENT *****       LINES 040-100 IF TERM DOES NOT EXCEED PRINT WIDTH,     *****
COMMENT *****                     MOVE TERM INTO PRINT BUFFER AND RETURN   *****
COMMENT *****                     TO CALLING REQUEST.                      *****
COMMENT *****       LINES 110-160 SCAN TERM FROM RIGHT BOUNDARY OF PRINT   *****
COMMENT *****                     WIDTH TO DETERMINE RIGHT MOST WORD END.  *****
COMMENT *****                     PLACE IN WORK FIELD AND TRANSFER WORK    *****
COMMENT *****                     FIELD TO PRINT BUFFER.  CALL PRINT       *****
COMMENT *****                     SUBROUTINE.                              *****
COMMENT *****       LINES 170-180 INITIALIZE FIELDS FOR SECOND LINE.       *****
COMMENT *****       LINES 190-210 DETERMINE IF REMAINING PORTION OF TERM   *****
COMMENT *****                     EXCEEDS PRINT WIDTH.  CARE MUST BE       *****
COMMENT *****                     TAKEN NOT TO LOSE THE LAST TWO           *****
COMMENT *****                     CHARACTERS OF THE TERM WHEN THE MAXIMUM *****
COMMENT *****                     TERM LENGTH IS USED AND NOT TO PRINT A   *****
COMMENT *****                     BLANK THIRD LINE WHEN THE TERM IS        *****
COMMENT *****                     SHORTER.                                 *****
COMMENT *****       LINES 220-240 MOVE REMAINING PORTION OF TERM INTO      *****
COMMENT *****         AND 245-248 PRINT BUFFER AND RETURN TO CALLING       *****
COMMENT *****                     ROUTINE.  (LINE 245 ENSURES THAT THE     *****
COMMENT *****                     PARTIAL FIELD DOES NOT EXCEED THE        *****
COMMENT *****                     FIELD WIDTH AND MAKES THE FIELD          *****
COMMENT *****                     INVALID)                                 *****
COMMENT *****       LINES 250-300 FOR TERMS THAT EXCEED THE PRINT WIDTH    *****
COMMENT *****                     ON THE SECOND LINE, SCAN TO DETERMINE    *****
COMMENT *****                     RIGHTMOST WORD END, PLACE IN WORK FIELD *****
COMMENT *****                     AND TRANSFER TO PRINT BUFFER.  CALL      *****
COMMENT *****                     PRINT SUBROUTINE.                        *****
COMMENT *****       LINES 310-340 SET UP FIELDS TO PRINT THIRD LINE.       *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------
(PR)(040)         (T,PARTIALN)    (+ )   (D,1                                ) (F,LSTART  )
(PR)(050)         (T,TERM    )    (EQ)   (C)                                                (LS) ( 4) (A)
(PR)(060)                         (NS)     (110                              )
(PR)(070)                         (R )   (T,PARTIALS                         ) (F,MSTART  )
(PR)(080)                         (R )   (T,PARTIALN                         ) (F,MNUMBER )
(PR)(090)                         (R )   (T,TERM                             ) (T,TERMPRNT)  (MS) (MN) (C)
(PR)(100)                         (GO)     (RETURN                           )
(PR)(110)                         (R )   (T,PARTIALN                         ) (F,MNUMBER )
(PR)(115)         (T,TERM    )    (SR)   (P,B                                )               ( 1) (MN) (A)
(PR)(120)                         (R )   (T,TERM                             ) (T,TEMP-SCN)  ( 1) (LN) (B)
```

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--------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...    OPER   ............OPERAND B.............     ....RESULT....  PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME     ATN   QLF    FIELD NAME OR CONSTANT          QLF FIELD NAME  STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------------
(PR)(130)                           (R )   (T,PARTIALS                          ) (F,MSTART  )
(PR)(140)                           (R )   (T,PARTIALN                          ) (F,MNUMBER )
(PR)(150)                           (R )   (T,TEMP-SCN                          ) (T,TERMPRNT)   (MS) (MN) (C)
(PR)(160)                           (GO)     (SUB EDA4GSDR                      )
(PR)(170)                           (R )   (C,2                                 ) (T,LINENO  )
(PR)(180)                           (R )   (C)                                    (T,CODEPRNT)
(PR)(190)          (F,RSTART  )    (+ )   (T,PARTIALN                          ) (F,LSTART  )
(PR)(192)          (F,LSTART  )    (LE)   (D,154                               )
(PR)(193)                           (NS)     (245                               )
(PR)(194)          (F,LSTART  )    (EQ)   (D,154                               )
(PR)(195)                           (NS)     (200                               )
(PR)(196)          (T,TERM    )    (EQ)   (C)                                                   (LS) ( 1) (A)
(PR)(197)                           (NS)     (250                               )
(PR)(198)                           (GO)     (220                               )
(PR)(200)          (T,TERM    )    (EQ)   (C)                                                   (LS) ( 2) (A)
(PR)(210)                           (NS)     (250                               )
(PR)(220)                           (R )   (T,TERM                              ) (T,TEMP-SCN)   (RS) (MN) (B)
(PR)(230)                           (R )   (T,TEMP-SCN                          ) (T,TERMPRNT)   (MS) (MN) (C)
(PR)(240)                           (GO)     (RETURN                            )
(PR)(245)          (T,C155    )    (- )   (F,RSTART                            ) (F,RNUMBER )
(PR)(246)                           (R )   (T,TERM                              ) (T,TEMP-SCN)   (RS) (RN) (B)
(PR)(247)                           (R )   (T,TEMP-SCN                          ) (T,TERMPRNT)   (MS) (MN) (C)
(PR)(248)                           (GO)     (RETURN                            )
(PR)(250)          (T,TERM    )    (SR)   (P,B                                 )                (RS) (MN) (A)
(PR)(260)                           (R )   (T,TERM                              ) (T,TEMP-SCN)   (LS) (LN) (B)
(PR)(270)                           (R )   (T,PARTIALS                          ) (F,MSTART  )
(PR)(280)                           (R )   (T,PARTIALN                          ) (F,MNUMBER )
(PR)(290)                           (R )   (T,TEMP-SCN                          ) (T,TERMPRNT)   (MS) (MN) (C)
(PR)(300)                           (GO)     (SUB EDA4GSDR                      )
(PR)(310)          (T,C155    )    (- )   (F,RSTART                            ) (F,RNUMBER )
(PR)(320)                           (R )   (C,3                                 ) (T,LINENO  )
(PR)(330)                           (R )   (T,TERM                              ) (T,TEMP-SCN)   (RS) (RN) (B)
(PR)(340)                           (R )   (T,TEMP-SCN                          ) (T,TERMPRNT)   (MS) (MN) (C)
```

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                                        ****************************************
                                        *       DUMP OF CATALOGED REQUESTS     *
                                        * GROUP - EDA4UC05  REQUEST - EDA4GTRN *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4GTRN:                                                    *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  OUTPUTS    *****
COMMENT *****    GENERATED TRANSACTIONS FROM TEMPORARY FIELDS SET BY       *****
COMMENT *****    CALLING ROUTINES.                                         *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE......... C EMP            SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD            73 TO 80
 DP     P              G             LT TYP POS         NUM     NL TD REC            BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)   (EDA4PASS)(  31)(F)
------------------------------------------------------------------------------------------------------------------------
          SP  Q           E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD    N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD    RA- C      PICTURE     STRT NO      SEQUENCE
TYPE NO.  COL F  NAME     D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME     TIO T       EDIT       CHR CHR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)         (T,TRAN-ID )
(R1)         (T,TRANCODE)
(R1)         (T,TRANTERM)
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4RI01  REQUEST - EDA4IDXF *
                                        ****************************************

------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** THE ROUTINES THAT GENERATE THE GLOSSARY INDEX CAN BE USED   *****
COMMENT ***** TO PRINT A PERMUTED INDEX OF TERMS FROM ANY OF THE MASTER   *****
COMMENT ***** FILES, SINGLY OR IN COMBINATION.  NORMALLY THE CLASSIFICA-  *****
COMMENT ***** TION SCHEDULES FILE AND THE SOURCE TERM FILE ARE USED,      *****
COMMENT ***** SUPPRESSING THE THESAURUS FILE BY SPECIFYING "DUMMY" IN ITS *****
COMMENT ***** DD STATEMENT.  ALL THE FILES ARE COORDINATED AGAINST A      *****
COMMENT ***** DUMMY MASTER FILE FOR EASE OF SELECTION.  THE SOURCE CODE   *****
COMMENT ***** IS CONTAINED IN FIVE REQUESTS:                              *****
COMMENT *****                                                             *****
COMMENT ***** EDA4IDXF INITIATES COORDINATION AND IDENTIFIES THE SOURCE   *****
COMMENT *****          FILES IN WHICH A PARTICULAR TERM OCCURS.           *****
COMMENT ***** EDA4IDXS SELECTS THE NEXT TERM, PERFORMS THE FIRST          *****
COMMENT *****          PERMUTATION, AND OUTPUTS THE TERM IN ITS ORIGINAL  *****
COMMENT *****          FORM.                                              *****
COMMENT ***** EDA4IDXL CREATES PERMUTED VERSIONS OF THE TERM.             *****
COMMENT ***** EDA4IDXR PERFORMS THE ACTUAL REPORTING FUNCTION.            *****
COMMENT ***** EDA4FMTC FORMATS THE CODES FOR PRINTING.                    *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    SOURCE   -- WORK FIELD IDENTIFYING THE SOURCE FILES FOR  *****
COMMENT *****                A PARTICULAR TERM                            *****
COMMENT *****    CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING    *****
COMMENT *****                ROUTINE                                      *****
COMMENT *****    CODEOUT  -- FORMATED CODE RETURNED BY FORMATING ROUTINE  *****
COMMENT *****    LINE-OUT -- REPORT FIELD                                 *****
COMMENT *****    SCAN-FLD -- WORK FIELD USED IN SEPARATING TERM INTO      *****
COMMENT *****                COMPONENT WORDS                              *****
COMMENT *****    SORT-FLD -- NON-PRINTING REPORT FIELD USED TO SORT       *****
COMMENT *****                REPORT                                       *****
COMMENT *****    WORD     -- TABLE LOOK UP ARGUMENT FOR SUPPRESSING       *****
COMMENT *****                UNWANTED PERMUTATIONS                        *****
COMMENT *****    SKIP     -- TABLE LOOK UP RESULT FIELD                   *****
COMMENT *****    PERMUTE  -- WORK FIELD USED TO HOLD CURRENT PERMUTATION  *****
COMMENT *****    VLIDSCAN -- FLAG USED TO SIGNAL END OF PERMUTATION LOOP  *****
COMMENT *****    MSTART   -- POSITION OF END OF TERM IN ORIGINAL FORM     *****
COMMENT *****    BLNKSUBS -- SUBSTITUTION FIELD USED TO SUPPRESS PUNC-    *****
COMMENT *****                TUATION DURING TABLE LOOK UP                 *****
COMMENT *****                                                             *****
COMMENT ***** EDA4IDXF:                                                   *****
COMMENT *****    LINES 110-130 INITIATE COORDINATION                      *****
COMMENT *****    LINES 140-240 IDENTIFY THE SOURCE FILES IN WHICH THE     *****
COMMENT *****                  NEXT TERM OCCURS                           *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
```

```
---------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT       INITIAL            LINE 1 OF        LINE 2 OF                       SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH        VALUE          COLUMN HEADING   COLUMN HEADING                     73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(TF) (SOURCE  ) (  5) (C)                 ((                )
(TF) (CODEIN  ) ( 30) (C)
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(110)                          (R )   (3,CODE                          )  (T,CODEIN  )
(PR)(120)                          (R )   (2,CODE                          )  (T,CODEIN  )
(PR)(130)                          (R )   (1,CODE                          )  (T,CODEIN  )
(PR)(140)                          (R )   (C)                                 (T,SOURCE  )  ( 2) ( 4) (C)
(PR)(150)           (F,ECORD   )   (EQ)   (C,L                             )                ( 1) ( 1) (A)
(PR)(160)                          (NS)     (180                           )
(PR)(170)                          (R )   (C,C                             )  (T,SOURCE  )  ( 2) ( 1) (C)
(PR)(180)           (F,ECORD   )   (EQ)   (C,L                             )                ( 2) ( 1) (A)
(PR)(190)                          (NS)     (210                           )
(PR)(200)           (T,SOURCE  )   (C0)   (C,G                             )  (T,SOURCE  )
(PR)(210)           (F,ECORD   )   (EQ)   (C,L                             )                ( 3) ( 1) (A)
(PR)(220)                          (NS)     (240                           )
(PR)(230)           (T,SOURCE  )   (C0)   (C,T                             )  (T,SOURCE  )
(PR)(240)           (T,SOURCE  )   (C0)   (C,)                             )  (T,SOURCE  )
```

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                              ***************************************
                              *     DUMP OF CATALOGED REQUESTS      *
                              * GROUP - EDA4RI01  REQUEST - EDA4IDXL *
                              ***************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                            MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID      ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                               (   50)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4IDXL:                                                    *****
COMMENT *****    FUNCTIONS AS A LOOP WHICH MAY BE PERFORMED UP TO FIFTY    *****
COMMENT *****    TIMES.                                                    *****
COMMENT *****       LINES 100-120 TEST FOR END OF LOOP                     *****
COMMENT *****       LINES 130-140 INITIALIZE FIELDS FOR NEXT PERMUTATION   *****
COMMENT *****       LINES 150-160 LOCATE END OF ORIGINAL TERM              *****
COMMENT *****       LINES 170-180 FIND END OF NEXT WORD                    *****
COMMENT *****       LINES 190-200 TEST FOR LAST WORD OF TERM               *****
COMMENT *****       LINES 210-240 PERFORM NEXT PERMUTATION                 *****
COMMENT *****       LINE  250     ELIMINATES END OF TERM INDICATOR         *****
COMMENT *****       LINES 260-390 TEST FIRST WORD OF CURRENT PERMUTATION   *****
COMMENT *****                     AGAINST SKIP TABLE                       *****
COMMENT *****       LINES 400-440 ELIMINATE INITIAL PUNCTUATION FROM SORT *****
COMMENT *****                     FIELD                                    *****
COMMENT *****       LINES 450-490 REPORT CURRENT PERMUTATION               *****
COMMENT *****       LINE  500     RETURNS TO BEGINNING OF LOOP             *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(100)         (F,ECORD    )   (NE)   (C,XXX                           )                 ( 1) ( 3) (A)
(PR)(110)     (A) (T,VLIDSCAN)    (EQ)   (C,1                             )
(PR)(120)                         (NS)     (END                           )
(PR)(130)                         (R )   (C)                                (T,VLIDSCAN)
(PR)(140)                         (R )   (T,PERMUTE                       ) (T,SCAN-FLD)
(PR)(150)         (T,SCAN-FLD)    (SL)   (P,#*#                           )
(PR)(160)                         (R )   (F,MSTART                        ) (T,MSTART   )
(PR)(170)         (T,SCAN-FLD)    (SL)   (P,B                             )
(PR)(175)         (T,SCAN-FLD)    (SL)   (P,#--#                          )
(PR)(180)                         (NS)     (END                           )
(PR)(190)         (T,MSTART   )   (GT)   (F,MSTART                        )
(PR)(200)                         (NS)     (250                           )
(PR)(210)                         (R )   (C,1                             ) (T,VLIDSCAN)
(PR)(220)                         (R )   (T,SCAN-FLD                      ) (T,PERMUTE )  (RS) (RN) (B)
(PR)(230)         (T,PERMUTE )    (CI)   (T,SCAN-FLD                      ) (T,PERMUTE )  (LS) (LN) (B)
(PR)(240)                         (GO)     (260                           )
(PR)(250)         (F,LNUMBER )    (- )   (D,1                             ) (F,LNUMBER )
(PR)(260)                         (R )   (T,SCAN-FLD                      ) (T,WORD     )  (LS) (LN) (B)
(PR)(270)         (T,WORD     )   (SS)   (P,#(#                           ) (T,BLNKSUBS)
(PR)(280)         (T,WORD     )   (SS)   (P,#)#                           ) (T,BLNKSUBS)
(PR)(290)         (T,WORD     )   (SS)   (P,#,#                           ) (T,BLNKSUBS)
(PR)(300)         (T,WORD     )   (SS)   (P,#.#                           ) (T,BLNKSUBS)
(PR)(310)         (T,WORD     )   (SS)   (P,#'#                           ) (T,BLNKSUBS)
(PR)(320)         (T,WORD     )   (SS)   (P,#"#                           ) (T,BLNKSUBS)
(PR)(330)         (T,WORD     )   (SS)   (P,#!#                           ) (T,BLNKSUBS)
(PR)(340)         (T,WORD     )   (SS)   (P,#|#                           ) (T,BLNKSUBS)
```

```
----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(350)         (T,WORD      )  (JL)                                         (T,WORD     )
(PR)(360)         (T,WORD      )  (TL)   (L,EDA4SKIP                        )  (T,SKIP     )
(PR)(370)         (T,SKIP      )  (EQ)   (T,SKIP                            )
(PR)(380)                         (NS)     (400                             )
(PR)(390)                         (GO)     (REQUEST EDA4IDXL                )
(PR)(400)                         (R )   (T,SCAN-FLD                        )  (T,SORT-FLD)
(PR)(460)                         (R )   (T,SCAN-FLD                        )  (T,LINE-OUT)
(PR)(480)         (T,LINE-OUT)    (C2)   (T,SOURCE                          )  (T,LINE-OUT)
(PR)(490)                         (GO)     (SUB EDA4IDXR                    )
(PR)(500)                         (GO)     (REQUEST EDA4IDXL                )
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4RI01  REQUEST - EDA4IDXR *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)'DATE   )                                                                      (S)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4IDXR:                                                   *****
COMMENT *****    SUBROUTINE REQUEST PERFORMED ONLY WHEN CALLED.  OUTPUTS  *****
COMMENT *****    INDEX REPORT LINES.                                      *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                   73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (NULL    ) (  1) (V)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...   OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(100)          (T,SORT-FLD)   (SS)   (P,-Y                             )  (T,NULL    )
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP            SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT M FLD            73 TO 80
 OP     P               G             LT TYP POS         NUM      ML TD REC         BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                        (58)        (X)
------------------------------------------------------------------------------------------------------------------------
          SP  Q           E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                 PARTIAL
CARD SEQ  BF  L  FIELD    N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C     PICTURE     STRT NO      SEQUENCE
TYPE NO.  COL F  NAME     D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T      EDIT       CHR CHR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,SORT-FLD)      (Y)(1)
(R1)(120)( 0)(T,LINE-OUT)
(R1)(130)( 2)(T,CODEOUT )
------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                      SEQUENCE
TYPE  NO.                                                 TEXT                                                 73 TO 80
------------------------------------------------------------------------------------------------------------------------
(T1) (130)                   (GLOSSARY INDEX#                                            )
(T1)(140) (#)
(T1)(150) (#)
```

```
                         ******************************************
                         *      DUMP OF CATALOGED REQUESTS        *
                         * GROUP - EDA4RI01  REQUEST - EDA4IDXS *
                         ******************************************

-------------------------------------------------------------------------------------------------------------
CARD REPORT                          MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE        REQUESTOR ID       ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ******************************************************* *****
COMMENT *****                                                         *****
COMMENT ***** EDA4IDXS:                                               *****
COMMENT *****    LINES 140-170 INITIALIZE FIELDS FOR TERMS THAT OCCUR *****
COMMENT *****                  IN THE CLASSIFICATION SCHEDULES        *****
COMMENT *****    LINES 180-210 INITIALIZE FIELDS FOR TERMS THAT OCCUR IN *****
COMMENT *****                  THE SOURCE TERM FILE, BUT NOT THE CLASSI- *****
COMMENT *****                  FICATION SCHEDULES                     *****
COMMENT *****    LINES 220-230 FORMAT THE CODE FOR PRINTING           *****
COMMENT *****    LINES 240-260 INITIALIZE FIELDS FOR LEAD-IN ENTRY TERMS *****
COMMENT *****                  NOT IN THE SOURCE TERM FILE            *****
COMMENT *****    LINES 270-280 LOCATE THE FIRST WORD                  *****
COMMENT *****    LINES 290-320 PERFORM THE FIRST PERMUTATION          *****
COMMENT *****    LINES 330-360 OUTPUT THE ORIGINAL TERM               *****
COMMENT *****                                                         *****
COMMENT ***** ******************************************************* *****
-------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF         LINE 2 OF               SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE       COLUMN HEADING    COLUMN HEADING              73 TO 80
-------------------------------------------------------------------------------------------------------------
(TF) (CODEOUT ) ( 36) (C)
(TF) (LINE-OUT) (165) (V)          (94)
(TF) (SCAN-FLD) (156) (V)
(TF) (SORT-FLD) (132) (C)
(TF) (WORD    ) ( 37) (C)
(TF) (SKIP    ) (  1) (C)
(TF) (PERMUTE ) (156) (V)
(TF) (VLIDSCAN) (  1) (C)
(TF) (MSTART  ) (  4) (F)
(TF) (BLNKSUBS) (  1) (C)
-------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-------------------------------------------------------------------------------------------------------------
(PR)(140)         (F,ECORD   )    (EQ)   (C,L                              )                ( 1) ( 1) (A)
(PR)(150)                         (NS)     (189                            )
(PR)(160)                         (R )   (1,TERM                           )  (T,SCAN-FLD)
(PR)(170)                         (GO)     (220                            )
(PR)(180)         (F,ECORD   )    (EQ)   (C,XL                             )                ( 1) ( 2) (A)
(PR)(190)                         (NS)     (240                            )
(PR)(200)                         (R )   (2,TERM                           )  (T,SCAN-FLD)
(PR)(210)                         (R )   (2,CODE                           )  (T,CODEIN  )
(PR)(220)                         (GO)     (SUB EDA4FMTC                   )
(PR)(230)                         (GO)     (270                            )
(PR)(240)         (F,ECORD   )    (EQ)   (C,XXL                            )                ( 1) ( 3) (A)
(PR)(250)                         (R )   (3,TERM                           )  (T,SCAN-FLD)
(PR)(260)                         (R )   (C)                                  (T,CODEOUT )
(PR)(270)         (T,SCAN-FLD)    (SS)   (P,BB                             )  (T,BLNKSUBS)
(PR)(274)         (T,SCAN-FLD)    (SL)   (P,B                              )
(PR)(275)         (T,SCAN-FLD)    (SL)   (P,#--#                           )
```

```
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(280)                         (NS)     (330                               )
(PR)(290)                         (R )   (T,SCAN-FLD                          )  (T,PERMUTE )  (RS) (RN) (B)
(PR)(300)         (T,PERMUTE )    (C0)   (C,*                                 )  (T,PERMUTE )
(PR)(310)         (T,PERMUTE )    (C1)   (T,SCAN-FLD                          )  (T,PERMUTE )  (LS) (LN) (B)
(PR)(320)                         (R )   (C,1                                 )  (T,VLIUSCAN)
(PR)(330)                         (R )   (T,SCAN-FLD                          )  (T,SORT-FLD)
(PR)(340)                         (R )   (T,SCAN-FLD                          )  (T,LINE-OUT)
(PR)(355)         (T,LINE-OUT)    (C2)   (T,SOURCE                            )  (T,LINE-OUT)
(PR)(360)                         (GO)     (SUB EDA4IDXR                      )
```

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                                         ******************************************
                                         *      DUMP OF CATALOGED REQUESTS        *
                                         * GROUP - EDA4IS02  REQUEST - EDA4IERR *
                                         ******************************************
---------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                              (S)
---------------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL         LINE 1 OF        LINE 2 OF                        SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING                     73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(TF) (M1       ) ( 14) (C)                 (ERROR TYPE 981  )
(TF) (M2       ) ( 13) (C)                 (CONTROL TABLE   )
(TF) (M3       ) ( 16) (C)                 (FOR SETTING TERM)
(TF) (M4       ) ( 15) (C)                 (IDENTIFIER DOES )
(TF) (M5       ) ( 12) (C)                 (NOT EXIST IN    )
(TF) (M6       ) (  5) (C)                 (M4LIB           )
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(110)                        (R )   (C,EE                              )  (F,EOF     )  ( 1) ( 2) (C)
(PR)(120)                        (R )   (D,100                             )  (F,CONDCODE)
---------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP                SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD                73 TO 80
 OP     P              G             LT TYP POS         NUM      ML TD REC            BUF      B CTL
---------------------------------------------------------------------------------------------------------------------------
(E1)                                    (X)
---------------------------------------------------------------------------------------------------------------------------
         SP  Q                 E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                 PARTIAL
CARD SEQ BF  L  FIELD          N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C     PICTURE     STRT NO        SEQUENCE
TYPE NO. COL F  NAME           D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T      EDIT       CHR CHR        73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(R1)(110)    (T,M1      )
(R1)(120)( 2)(T,M2      )
(R1)(130)( 1)(T,M3      )
(R1)(140)( 1)(T,M4      )
(R1)(150)( 1)(T,M5      )
(R1)(160)( 1)(T,M6      )
---------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                         SEQUENCE
TYPE  NO.                                                    TEXT                                                 73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(T1) (110)                      (ERROR REPORT#                                       )
(T1)(120) (#)
(T1)(130) (#)
```

72 - SOURCE CODE

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                                        ****************************************
                                        *       DUMP OF CATALOGED REQUESTS     *
                                        * GROUP - EDA4UT04  REQUEST - EDA4LCNT *
                                        ****************************************
----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID        ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP  NAME    CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                      (2)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    SAME AS EDA4CKLE                                         *****
COMMENT *****                                                             *****
COMMENT ***** EDA4LCNT:                                                   *****
COMMENT *****    EXECUTES AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****    MASTER FILE.                                             *****
COMMENT *****      LINES 110-180 TEST FOR VALID "USE" TYPE LEAD-IN ENTRY *****
COMMENT *****                    UNIT AND SET FLAG TO PASS TEST IN        *****
COMMENT *****                    EDA4LSUM                                 *****
COMMENT *****      LINES 190-260 INCREMENT FLAGS AND TEST FOR PRIOR "LE" *****
COMMENT *****                    TRANSACTION FOR "USE AND" AND "SEE"      *****
COMMENT *****                    LEAD-IN ENTRY UNITS                      *****
COMMENT *****      LINES 270-320 REJECT MODIFICATION OF NEWLY ADDED "LE" *****
COMMENT *****                    REFERENCE                                *****
COMMENT *****      LINES 330-370 TEST FOR VALID CHANGE TO "USE" TYPE      *****
COMMENT *****                    REFERENCE                                *****
COMMENT *****      LINES 380-440 INCREMENT FLAGS FOR CHANGE TO "USE       *****
COMMENT *****                    AND" OR "SEE" REFERENCE                  *****
COMMENT *****      LINE  450     CHECKS FOR INTERNAL CONSISTENCY IN       *****
COMMENT *****                    LEAD-IN ENTRY UNIT (IE ONLY "USE AND"    *****
COMMENT *****                    OR ONLY "SEE" TRANSACTIONS COMBINED IN   *****
COMMENT *****                    A UNIT)                                  *****
COMMENT *****      LINES 460-470 SET FLAGS TO REJECT ERROR TRANSACTION    *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,UN                             )
(PR)(120)          (X,TRAN-ID )   (EQ)   (C,UR                             )
(PR)(130)                         (NS)     (190                            )
(PR)(140)          (T,LEFLG   )   (EQ)   (D,1                              )
(PR)(150)     (A)  (T,LE-TYPE )   (EQ)   (C,LE                             )
(PR)(160)                         (NS)     (460                            )
(PR)(170)                         (R )   (D,3                              )  (T,LEFLG   )
(PR)(180)                         (GO)     (END                            )
(PR)(190)          (X,TRAN-ID )   (EQ)   (C,UA                             )
(PR)(200)          (X,TRAN-ID )   (EQ)   (C,SE                             )
(PR)(210)                         (NS)     (270                            )
(PR)(220)          (T,LEFLG   )   (+ )   (D,1                              )  (T,LEFLG   )
(PR)(230)          (T,LE-TYPE )   (EQ)   (C,LE                             )
(PR)(240)                         (NS)     (450                            )
(PR)(250)                         (R )   (X,TRAN-ID                        )  (T,LE-TYPE )
(PR)(260)                         (GO)     (END                            )
(PR)(270)          (X,TRAN-ID1)   (EQ)   (C,M                              )
(PR)(280)     (A)  (F,TRAN    )   (EQ)   (D,2                              )
(PR)(290)                         (NS)     (330                            )
```

```
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............   ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(300)                         (R )   (D,4                               ) (F,DELETE  )
(PR)(310)                         (R )   (C,C                               ) (T,CORDLKUP)
(PR)(320)                         (GO)     (END                             )
(PR)(330)         (X,TRAN-ID )    (EQ)   (C,MU                              )
(PR)(340)                         (NS)     (380                             )
(PR)(350)         (T,LEFLG   )    (EQ)   (D,0                               )
(PR)(355)                         (NS)     (460                             )
(PR)(360)                         (R )   (D,3                               ) (T,LEFLG   )
(PR)(370)                         (GO)     (END                             )
(PR)(380)         (X,TRAN-ID )    (EQ)   (C,MA                              )
(PR)(390)         (X,TRAN-ID )    (EQ)   (C,MS                              )
(PR)(400)         (T,LEFLG   )    (+ )   (D,2                               ) (T,LEFLG   )
(PR)(410)         (T,LE-TYPE )    (EQ)   (C)
(PR)(420)                         (NS)     (450                             )
(PR)(430)                         (R )   (X,TRAN-ID                         ) (T,LE-TYPE )
(PR)(440)                         (GO)     (END                             )
(PR)(450)         (T,LE-TYPE )    (NE)   (X,TRAN-ID                         )
(PR)(460)                         (R )   (D,4                               ) (F,DELETE  )
(PR)(470)                         (R )   (C,L                               ) (T,CORDLKUP)
```

```
                                   ****************************************
                                   *       DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4UT06  REQUEST - EDA4LERJ *
                                   ****************************************
------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID            ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                      (3)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4LERJ:                                                    *****
COMMENT *****    EXECUTED AFTER APPLICATION OF TRANSACTION TO MASTER FILE *****
COMMENT *****    RECORD.  ASSURES OUTPUT OF CHANGE REPORT LINE ONLY FOR   *****
COMMENT *****    VALID "LE" TRANSACTIONS.  (NOTE:  EXTRANEOUS "LE"        *****
COMMENT *****    TRANSACTIONS MAY BE PRODUCED BY RECIPROCAL GENERATED     *****
COMMENT *****    PROCESSING.                                              *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR        73 TO 80
------------------------------------------------------------------------------------------------------------------------------------
(PR)(100)         (X,TRAN-ID )   (EQ)   (C,LE                                  )
(PR)(110)     (A) (F,XTRAN   )   (EQ)   (D,0                                   )
(PR)(120)                        (GO)      (SUB EDA4THCR                       )
```

SOURCE CODE - 75

```
                                             *******************************************
                                             *        DUMP OF CATALOGED REQUESTS       *
                                             * GROUP - EDA4UT04  REQUEST - EDA4LSUM *
                                             *******************************************
---------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------------------------
(EH)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4LSUM:                                                    *****
COMMENT *****    EXECUTED AFTER ALL TRANSACTIONS FOR RECORD HAVE BEEN      *****
COMMENT *****    TESTED.                                                   *****
COMMENT *****       LINES 110-120 TEST FOR LEAD-IN ENTRY WITH ANY KIND OF *****
COMMENT *****                     TRANSACTION ACTIVITY                     *****
COMMENT *****       LINES 130-140 TEST FOR INVALID LEAD-IN ENTRY UNIT      *****
COMMENT *****       LINE  150     SETS CONDITION CODE                      *****
COMMENT *****       LINES 160-200 CREATE AND OUTPUT ERROR MESSAGE          *****
COMMENT *****       LINES 210-230 RESET FLAGS                              *****
COMMENT ***** ************************************************************ *****
---------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
---------------------------------------------------------------------------------------------------------------------------------
(PR)(110)             (CODE     )  (SN)   (P,9IIIIIIIIIIIIIIIIII              )
(PR)(115)      (A)   (F.TRAN    )  (GT)   (D.0                                )
(PR)(120)                          (NS)     (210                              )
(PR)(130)            (T.LEFLG   )  (LT)   (D.3                                )
(PR)(140)                          (NS)     (210                              )
(PR)(150)                          (R )   (D.100                              )  (F.CONDCODE)
(PR)(160)                          (R )   (C,15!                              )  (T.ERRTYPE )
(PR)(170)                          (R )   (C,INVALID LEAD-IN ENTRY UNIT       )  (T.MSG2    )
(PR)(180)                          (R )   (C)                                    (T.TRAN    )
(PR)(190)                          (R )     (TERM                             )  (T,TRAN    )  ( 3) (20) (C)
(PR)(200)                          (GO)     (SUB EDA4TERR                     )
(PR)(210)                          (R )   (D.0                                )  (T.LEFLG   )
(PR)(220)                          (R )   (C)                                    (T.LE-TYPE )
(PR)(230)                          (R )   (C)                                    (T.DEL-MFLG)
```

```
                                         ****************************************
                                         *      DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4UC03  REQUEST - EDA4MOD1 *
                                         ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    TRAN-ID  -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTION                                   *****
COMMENT *****    TRANCODE -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTION                                   *****
COMMENT *****    TRANTERM -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTION                                   *****
COMMENT *****                                                              *****
COMMENT ***** EDA4MOD1:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE     *****
COMMENT *****    MASTER FILE.                                              *****
COMMENT *****       LINES 110-120 TEST FOR DELETE CARD OF SPELLING CHANGE *****
COMMENT *****                     PAIR                                     *****
COMMENT *****       LINE  130     TESTS FOR EXISTENCE OF MASTER FILE       *****
COMMENT *****                     RECORD                                   *****
COMMENT *****       LINES 140-170 OUTPUT A TRANSFORMED TRANSACTION         *****
COMMENT *****                     CONTAINING THE CODE FOR TESTING          *****
COMMENT *****                     AGAINST THE THESAURUS FILE               *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT       INITIAL         LINE 1 OF        LINE 2 OF                       SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING                    73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (TRAN-ID ) (  2) (C)
(TF) (TRANCODE) ( 23) (C)
(TF) (TRANTERM) ( 55) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR        73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )    (EQ)   (C,CS                              )
(PR)(120)     (A) (X,CODE    )    (EQ)   (C)
(PR)(130)     (A) (O,CODE    )    (EQ)   (O,CODE                            )
(PR)(140)                         (R )   (C)                                  (T,TRAN-ID )
(PR)(150)                         (R )   (O,CODE                            ) (T,TRANCODE)
(PR)(160)                         (R )   (X,TERM                            ) (T,TRANTERM)
(PR)(170)                         (GO)     (SUB EDA4GTRN                    )
```

```
                         ****************************************
                         *      DUMP OF CATALOGED REQUESTS      *
                         * GROUP - EDA4UC03  REQUEST - EDA4MOD2 *
                         ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                          MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE         REQUESTOR ID      ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP  NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                               (2)
COMMENT ***** ***************************************************** *****
COMMENT *****                                                       *****
COMMENT ***** EDA4MOD2:                                             *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE   *****
COMMENT *****    MASTER FILE.                                       *****
COMMENT *****       LINE  110      TESTS FOR CODE CHANGE TRANSACTION     *****
COMMENT *****       LINES 130-140  TEST FOR EXISTENCE OF MASTER FILE     *****
COMMENT *****                      RECORD                           *****
COMMENT *****       LINES 120,     OUTPUT A GENERATED TRANSACTION FOR USE *****
COMMENT *****             150-170  IN CREATING TRANSACTIONS TO MOVE DATA  *****
COMMENT *****                      FROM OLD RECORD TO NEW RECORD    *****
COMMENT *****       REPORT         PASSES UNMODIFIED CODE CHANGE TRANS-  *****
COMMENT *****                      ACTION TO SUBFILE FOR USE IN SUBSEQUENT *****
COMMENT *****                      STEP                             *****
COMMENT *****                                                       *****
COMMENT ***** ***************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )    (EQ)    (C,CC                              )
(PR)(120)                         (R )    (C,C                               )  (T,TRAN-ID )
(PR)(130)         (O,CODE     )   (EQ)    (O,CODE                            )
(PR)(140)                         (NS)      (OUTPUT                          )
(PR)(150)                         (R )    (O,CODE                            )  (T,TRANCODE)
(PR)(160)                         (R )    (X,CODE                            )  (T,TRANTERM)
(PR)(170)                         (GO)      (SUB EDA4GTRN                    )
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP          SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD          73 TO 80
 DP     P              G             LT TYP POS         NUM     ML TD REC            BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E2)                                                          (NR)(X)(EDA4PASS)(   31)(F)
```

```
                                        ****************************************
                                        *       DUMP OF CATALOGED REQUESTS     *
                                        * GROUP - EDA4UC05  REQUEST - EDA4MOD3 *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4MOD3:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE     *****
COMMENT *****    MASTER FILE.                                              *****
COMMENT *****       LINE 110      TESTS FOR CODE CHANGE TRANSACTION        *****
COMMENT *****                     GENERATED BY PRIOR STEP                  *****
COMMENT *****       LINES 120-150 GENERATE TRANSACTION TO DELETE RECORD    *****
COMMENT *****                     STORED UNDER OLD CODE                    *****
COMMENT *****       LINES 160-190 GENERATE TRANSACTION TO ADD RECORD WITH *****
COMMENT *****                     NEW CODE                                 *****
COMMENT *****       LINES 200-300 GENERATE TRANSACTIONS TO MOVE SCOPE      *****
COMMENT *****                     NOTE TO NEW RECORD                       *****
COMMENT *****       LINES 310-350 GENERATE TRANSACTIONS TO MOVE "UF"       *****
COMMENT *****                     REFERENCES TO NEW RECORD                 *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    TRAN-ID  -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTIONS                                  *****
COMMENT *****    TRANCODE -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTIONS                                  *****
COMMENT *****    TRANTERM -- WORK FIELD USED TO OUTPUT GENERATED           *****
COMMENT *****                TRANSACTIONS                                  *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL         LINE 1 OF        LINE 2 OF                        SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH       VALUE       COLUMN HEADING   COLUMN HEADING                      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (TRAN-ID ) (  2) (C)
(TF) (TRANCODE) ( 23) (C)
(TF) (TRANTERM) ( 55) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )    (EQ)   (C,C                                 )
(PR)(120)                         (R )   (C,DD                                )  (T,TRAN-ID )
(PR)(130)                         (R )   (X,CODE                              )  (T,TRANCODE)
(PR)(140)                         (R )   (X,TERM                              )  (T,TRANTERM)
(PR)(150)                         (GO)     (SUB EDA4GTRN                      )
(PR)(160)                         (R )   (C,AA                                )  (T,TRAN-ID )
(PR)(170)                         (R )   (X,NEWCODE                           )  (T,TRANCODE)
(PR)(180)                         (R )   (O,TERM                              )  (T,TRANTERM)
(PR)(190)                         (GO)     (SUB EDA4GTRN                      )
(PR)(200)         (O,SCOPE-NT)    (NE)   (C)
(PR)(210)                         (NS)      (310                              )
(PR)(220)                         (R )   (C,S1                                )  (T,TRAN-ID )
(PR)(230)                         (R )   (O,SCOPE-1                           )  (T,TRANTERM)
(PR)(240)                         (GO)     (SUB EDA4GTRN                      )
```

```
---------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B............   ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
---------------------------------------------------------------------------------------------------------------------
(PR)(250)                         (R )   (C,S2                             )  (T,TRAN-ID )
(PR)(260)                         (R )   (O,SCOPE-2                        )  (T,TRANTERM)
(PR)(270)                         (GO)     (SUB EDA4GTRN                   )
(PR)(280)                         (R )   (C,S3                             )  (T,TRAN-ID )
(PR)(290)                         (R )   (O,SCOPE-3                        )  (T,TRANTERM)
(PR)(300)                         (GO)     (SUB EDA4GTRN                   )
(PR)(310)         (O,UF-REF   )   (EQ)   (O,UF-REF                         )
(PR)(330)                         (R )   (C,UF                             )  (T,TRAN-ID )
(PR)(340)                         (R )   (O,UF-REF                         )  (T,TRANTERM)
(PR)(350)                         (GO)     (SUB EDA4GTRN                   )
```

```
                         ****************************************
                         *      DUMP OF CATALOGED REQUESTS      *
                         * GROUP - EDA4UC05  REQUEST - EDA4MOD4 *
                         ****************************************

------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE, DATE          REQUESTOR ID          ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                   (2)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,C                              )
(PR)(120)     (A)    (RT-REF  )   (EQ)     (RT-REF                         )
(PR)(130)                         (R )   (C,RT                             )  (T,TRAN-ID )
(PR)(140)                         (R )     (RT-REF                         )  (T,TRANTERM)
(PR)(150)                         (GO)     (SUB EDA4GTRN                   )
```

```
                                                   ******************************************
                                                   *       DUMP OF CATALOGED REQUESTS       *
                                                   * GROUP - EDA4UC05  REQUEST - EDA4MODS  *
                                                   ******************************************

------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                        MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE             REQUESTOR ID              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                              (2)
------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME  ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR        73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,C                              )
(PR)(120)      (A)   (BT-REF  )   (EQ)     (BT-REF                         )
(PR)(130)                         (R )   (C,BT                             )  (T,TRAN-ID )
(PR)(140)                         (R )     (BT-REF                         )  (T,TRANTERM)
(PR)(150)                         (GO)     (SUB EDA4GTRN                   )
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC05  REQUEST - EDA4MOD6 *
                                        ****************************************
----------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME    CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                         (2)
----------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  ............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF     FIELD NAME OR CONSTANT      QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,C                               )
(PR)(120)     (A)    (NT-REF  )   (EQ)     (NT-REF                          )
(PR)(130)                         (R )   (C,NT                              )  (T,TRAN-ID )
(PR)(140)                         (R )     (NT-REF                          )  (T,TRANTERM)
(PR)(150)                         (GO)     (SUB EDA4GTRN                    )
```

```
                                        *****************************************
                                        *      DUMP OF CATALOGED REQUESTS       *
                                        * GROUP - EDA4UD02  REQUEST - EDA4NDEF *
                                        *****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (S)
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN  SL RM .......SUBFILE........ C EMP            SEQUENCE
 RY RPT S LPI WID HGT  N FRM LPP PGS TO HEADING POS POS PAGE NUM  UR PN ENT     NAME  BLK/ FMT H FLD            73 TO 80
 OP     P              G             LT TYP POS         NUM       RL TO REC           BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)   (EDA4TRND)(  10)(F)
------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C      PICTURE     STRT NO      SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T       EDIT       CHR CHR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)          (T.TRAN-ID )
(R1)          (T.NEW-OCC )
(R1)          (T.DATA1   )
(R1)          (T.DATA2   )
(R1)          (T.DATA3   )
(R1)          (T.DATA4   )
```

```
                                        ***************************************
                                        *     DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4US05  REQUEST - EDA4NTXT *
                                        ***************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                     MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID              ITEMS CTL RPT  SP   CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                         (S)
-------------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL           LINE 1 OF        LINE 2 OF                        SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH         VALUE          COLUMN HEADING   COLUMN HEADING                    73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(TF) (ONE      ) (  1) (C)                    (1               )
-------------------------------------------------------------------------------------------------------------------------
 CT SUM V  H  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE......... C EMP                  SEQUENCE
 RY RPT S LPI WID HGT   M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD                 73 TO 80
 DP     P               G             LT TYP POS             NUM      ML TO REC            BUF     B CTL
-------------------------------------------------------------------------------------------------------------------------
(E1)                                                                    (NR)   (EDA4STIN)(  23)(F)
-------------------------------------------------------------------------------------------------------------------------
          SP  Q                 E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD          N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C      PICTURE      STRT NO        SEQUENCE
TYPE NO.  COL F  NAME           D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T       EDIT        CHR CHR        73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(R1)(110)    (T,ONE      )
(R1)(120)      (SRC-TYPE)
(R1)(130)      (OCC-ID  )
(R1)(140)      (TERM-ID )
(R1)(150)    (T,NEW-TERM)
```

```
                        ******************************************
                        *       DUMP OF CATALOGED REQUESTS       *
                        * GROUP - EDA4UC05  REQUEST - EDA4PAS1   *
                        ******************************************
--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(EN)(DATE  )                                                                     (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4PAS1:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE     *****
COMMENT *****    MASTER FILE.  PASSES, UNMODIFIED, ADD AND DELETE TRANS-   *****
COMMENT *****    ACTIONS TO SUBFILE FOR USE IN SUBSEQUENT STEP.            *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(PR)(110)           (X,TRAN-ID )   (EQ)   (C,CA                            )
(PR)(120)           (X,TRAN-ID )   (EQ)   (C,CD                            )
--------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP              SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD              73 TO 80
 OP     P              G             LT TYP POS         NUM      HL TD REC           BUF      # CTL
--------------------------------------------------------------------------------------------------------------------------
(E1)                                                            (NR)(X)(EDA4PASS)(   3))(F)
```

```
                                        ******************************************************
                                        *         DUMP OF CATALOGED REQUESTS                 *
                                        * GROUP - EDA4UC05  REQUEST - EDA4PAS2               *
                                        ******************************************************
----------------------------------------------------------------------------------------------------------------------------
CARD REPORT                               MAX  SEL SUM VERT FORMS PAGE PAGE LINK REQ   SET    BACK OR REINIT SEQUENCE
TYPE  DATE         REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(EN)(DATE  )                                                                     (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4PAS2:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION WITH THE     *****
COMMENT *****    MASTER FILE.  PASSES, UNMODIFIED, THE ADD CARD OF A       *****
COMMENT *****    SPELLING CHANGE PAIR TO SUBFILE FOR USE IN SUBSEQUENT     *****
COMMENT *****    STEP.                                                     *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
----------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )   (EQ)   (C,CS                              )
(PR)(120)     (A)  (X,CODE     )   (NE)   (C)
----------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE......... C EMP              SEQUENCE
 RY RPT S LPI WID HGT  H FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD              73 TO 80
 OP     P              G             LT TYP POS         NUM      ML TD REC           BUF      B CTL
----------------------------------------------------------------------------------------------------------------------------
(E1)                                                                   (NR)(X)(EDA4PASS)(   3])(F)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UT01  REQUEST - EDA4PSLE *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** IN UPDATING THE THESAURUS, A PRELIMINARY STEP IS PERFORMED  *****
COMMENT ***** TO TRANSFORM "LE" TRANSACTIONS SO THAT THEY WILL SORT IN    *****
COMMENT ***** THE CORRECT ORDER IN THE TRANSACTION FILE.  THE SOURCE CODE *****
COMMENT ***** IS CONTAINED IN ONE REQUEST THAT ACCESSES THE UNSORTED      *****
COMMENT ***** TRANSACTION FILE AS A MASTER AND CREATES AN UPDATED FILE,   *****
COMMENT ***** REPLACING THE BLANK LEAD-IN CODE FIELD WITH THE LEAD-IN     *****
COMMENT ***** ENTRY KEY.                                                  *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)            (TRAN-ID )   (EQ)   (C,LE                             )
(PR)(120)                         (R )     (TERM                           )    (CODE  )  ( 1) (20) (8)
```

```
                                ****************************************
                                *        DUMP OF CATALOGED REQUESTS    *
                                * GROUP - EDA4RP01  REQUEST - EDA4PRMT *
                                ****************************************
--------------------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                      MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                        (S)
COMMENT ***** ******************************************************** *****
COMMENT *****                                                          *****
COMMENT ***** EDA4PRMT:                                                *****
COMMENT *****    SUBROUTINE REQUEST, PERFORMED ONLY WHEN CALLED.       *****
COMMENT *****    OUTPUTS PERMUTED INDEX REPORT LINES.  THE NON-        *****
COMMENT *****    PRINTING SORT FIELD ALLOWS PERMUTATIONS               *****
COMMENT *****    BEGINNING WITH "(" TO PRINT IN CORRECT                *****
COMMENT *****    ALPHABETICAL SEQUENCE.                                *****
COMMENT *****                                                          *****
COMMENT ***** ******************************************************** *****
--------------------------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP                SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME    BLK/ FMT H FLD                73 TO 80
 DP     P              G             LT TYP POS         NUM     HL TD REC             BUF      B CTL
--------------------------------------------------------------------------------------------------------------------------------------------
(E1)        ( 65)   (2)   (60)          (X)      (ND,NP)
--------------------------------------------------------------------------------------------------------------------------------------------
          SP  Q                E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                   PARTIAL
CARD SEQ  BF  L  FIELD         N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C      PICTURE      STRT NO      SEQUENCE
TYPE NO.  COL F  NAME          D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T       EDIT        CHR CHR      73 TO 80
--------------------------------------------------------------------------------------------------------------------------------------------
(R1)      ( 0)(T,SORT-FLD)    (Y)(1)
(R1)      ( 5)(T,PRNT-FLD)
--------------------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------------------------
(T1)       (#)
(T1)       (#)
(T1)       (#)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4RP01  REQUEST - EDA4PRM1 *
                                        ****************************************
-----------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** **************************************************       *****
COMMENT *****                                                          *****
COMMENT ***** THE PERMUTED INDEX CAN BE USED FOR EITHER THE            *****
COMMENT ***** CLASSIFICATION SCHEDULES FILE OR THE THESAURUS           *****
COMMENT ***** FILE.  THE SOURCE CODE IS CONTAINED IN THREE             *****
COMMENT ***** REQUESTS (EDA4PRM1, EDA4PRM2, EDA4PRMT) WHICH            *****
COMMENT ***** ACCESS THE MASTER FILE AND PRODUCE A SORTED REPORT.      *****
COMMENT *****                                                          *****
COMMENT ***** EDA4PRM1 PERFORMS THE INITIAL SET-UP FUNCTIONS           *****
COMMENT ***** EDA4PRM2 PERFORMS THE PERMUTATIONS                       *****
COMMENT ***** EDA4PRMT OUTPUTS REPORT LINES.                           *****
COMMENT *****                                                          *****
COMMENT ***** TEMPORARY FIELDS:                                        *****
COMMENT *****    SCAN-FLD -- WORK FIELD USED TO SEPARATE WORDS         *****
COMMENT *****    SORT-FLD -- REPORT FIELD USED TO SORT REPORT          *****
COMMENT *****                (NOT PRINTED)                             *****
COMMENT *****    PRNT-FLD -- REPORT FIELD                              *****
COMMENT *****    WORD     -- TABLE LOOK-UP ARGUMENT FOR                *****
COMMENT *****                SUPPRESSING USELESS PERMUTATIONS          *****
COMMENT *****    SKIP     -- TABLE LOOK-UP RESULT                      *****
COMMENT *****    PERMUTE  -- WORK FIELD USED TO HOLD CURRENT           *****
COMMENT *****                PERMUTATION                               *****
COMMENT *****    VLIDSCAN -- FLAG                                      *****
COMMENT *****    MSTART   -- LOCATION OF END OF TERM                   *****
COMMENT *****    BLNKSUBS -- SUBSTITUTION FIELD TO BLANK               *****
COMMENT *****                PUNCTUATION                               *****
COMMENT *****                                                          *****
COMMENT ***** EDA4PRM1:                                                *****
COMMENT *****       LINES 110-170 SET UP FIRST PERMUTATION             *****
COMMENT *****       LINES 180-200 OUTPUT TERM IN ORIGINAL FORM         *****
COMMENT *****                                                          *****
COMMENT ***** **************************************************       *****
-----------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL         LINE 1 OF       LINE 2 OF                  SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE        COLUMN HEADING  COLUMN HEADING                73 TO 80
-----------------------------------------------------------------------------------------------------------
(TF) (SCAN-FLD) ( 41) (V)
(TF) (SORT-FLD) ( 41) (C)
(TF) (PRNT-FLD) ( 41) (V)
(TF) (WORD    ) ( 37) (C)
(TF) (SKIP    ) (  1) (C)
(TF) (PERMUTE ) ( 41) (V)
(TF) (VLIDSCAN) (  1) (C)
(TF) (MSTART  ) (  4) (F)
(TF) (BLNKSUBS) (  1) (C)
-----------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B............  ....RESULT.... PARTIAL FIELD   SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT      QLF FIELD NAME STRT NUMB OPR   73 TO 80
-----------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )    (TERM                           ) (T,SCAN-FLD)
```

```
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT          QLF FIELD NAME STRT NUMB OPR       73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(120)         (T,SCAN-FLD)    (SL)   (P,B                                 )
(PR)(130)                         (NS)     (180                               )
(PR)(140)                         (R )   (T,SCAN-FLD                          )  (T,PERMUTE )  (RS) (RN) (B)
(PR)(150)         (T,PERMUTE )    (C0)   (C,,                                 )  (T,PERMUTE )
(PR)(160)         (T,PERMUTE )    (C1)   (T,SCAN-FLD                          )  (T,PERMUTE )  (LS) (LN) (B)
(PR)(170)                         (R )   (C,1                                 )  (T,VLIUSCAN)
(PR)(180)                         (R )   (T,SCAN-FLD                          )  (T,SORT-FLD)
(PR)(190)                         (R )   (T,SCAN-FLD                          )  (T,PRNT-FLD)
(PR)(200)                         (GO)     (SUB EDA4PRNT                      )
```

```
                                    *****************************************
                                    *       DUMP OF CATALOGED REQUESTS      *
                                    * GROUP - EDA4RP01  REQUEST - EDA4PRM2 *
                                    *****************************************

---------------------------------------------------------------------------------------------------------------
CARD REPORT                                     MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                                  (   10)
COMMENT ***** *************************************************            *****
COMMENT *****                                                              *****
COMMENT ***** EDA4PRM2:                                                    *****
COMMENT *****    FUNCTIONS AS A LOOP WHICH MAY BE PERFORMED UP TO          *****
COMMENT *****    TEN TIMES.                                                *****
COMMENT *****       LINES 110-120 TEST FOR END OF LOOP.                    *****
COMMENT *****       LINES 130-160 INITIALIZE FIELDS AND FIND THE           *****
COMMENT *****                     END OF THE TERM.                         *****
COMMENT *****       LINES 170-240 PERFORM THE NEXT PERMUTATION.            *****
COMMENT *****       LINE  250     REMOVE ",," FROM THE LAST WORD           *****
COMMENT *****                     OF THE TERM.                             *****
COMMENT *****       LINES 260-350 LOOK UP THE WORD IN THE SKIP             *****
COMMENT *****                     TABLE, REMOVING PARENTHESES              *****
COMMENT *****                     WHEN THEY OCCUR.  IF THE WORD            *****
COMMENT *****                     IS TO BE SKIPPED, RETURN TO              *****
COMMENT *****                     TOP OF LOOP.                             *****
COMMENT *****       LINES 360-390 REMOVE "(" FROM SORT FIELD.              *****
COMMENT *****       LINES 400-430 OUTPUT REPORT LINE AND RETURN            *****
COMMENT *****                     TO TOP OF LOOP.                          *****
COMMENT *****                                                              *****
COMMENT ***** *************************************************            *****
---------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
---------------------------------------------------------------------------------------------------------------
(PR)(110)         (T,VLIDSCAN)    (EQ)   (C,1                             )
(PR)(120)                         (NS)     (NEXT MASTER                   )
(PR)(130)                         (R )   (C)                                (T,VLIDSCAN)
(PR)(140)                         (R )   (T,PERMUTE                       ) (T,SCAN-FLD)
(PR)(150)         (T,SCAN-FLD)    (SL)   (P,#,#                           )
(PR)(160)                         (R )   (F,MSTART                        ) (T,MSTART  )
(PR)(170)         (T,SCAN-FLD)    (SL)   (P,B                             )
(PR)(180)                         (NS)     (END                           )
(PR)(190)         (T,MSTART  )    (GT)   (F,MSTART                        )
(PR)(200)                         (NS)     (250                           )
(PR)(210)                         (R )   (C,1                             ) (T,VLIDSCAN)
(PR)(220)                         (R )   (T,SCAN-FLD                      ) (T,PERMUTE )  (RS) (RN) (B)
(PR)(230)         (T,PERMUTE )    (C1)   (T,SCAN-FLD                      ) (T,PERMUTE )  (LS) (LN) (B)
(PR)(240)                         (GO)     (260                           )
(PR)(250)         (F,LNUMBER )    (- )   (D,1                             ) (F,LNUMBER )
(PR)(260)                         (R )   (T,SCAN-FLD                      ) (T,WORD    )  (LS) (LN) (B)
(PR)(270)         (T,WORD    )    (SS)   (P,#)#                           ) (T,BLNKSUBS)
(PR)(280)         (T,WORD    )    (EQ)   (C,(                             )               ( 1) ( 1) (A)
(PR)(290)                         (NS)     (320                           )
(PR)(300)         (T,WORD    )    (TL)   (L,EDA4SKIP                      ) (T,SKIP    )  ( 2) (10) (A)
(PR)(310)                         (GO)     (330                           )
(PR)(320)         (T,WORD    )    (TL)   (L,EDA4SKIP                      ) (T,SKIP    )  ( 1) (10) (A)
(PR)(330)         (T,SKIP    )    (EQ)   (T,SKIP                          )
(PR)(340)                         (NS)     (360                           )
(PR)(350)                         (GO)     (REQUEST EDA4PRM2              )
```

```
--------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------
(PR)(360)         (T.WORD     )   (EQ)   (C.(                                )                ( 1) ( 1) (A)
(PR)(370)                         (NS)     (400                              )
(PR)(380)                         (R )   (T.SCAN-FLD                         )  (T.SORT-FLD)  ( 2)      (B)
(PR)(390)                         (GO)     (410                              )
(PR)(400)                         (R )   (T.SCAN-FLD                         )  (T.SORT-FLD)
(PR)(410)                         (R )   (T.SCAN-FLD                         )  (T.PRNT-FLD)
(PR)(420)                         (GO)     (SUB EDA4PRNT                     )
(PR)(430)                         (GO)     (REQUEST EDA4PRN2                 )
```

```
                              ***************************************
                              *       DUMP OF CATALOGED REQUESTS    *
                              * GROUP - EDA4UD02  REQUEST - EDA4NDEF *
                              ***************************************

-------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK DR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                          (3)                 (Y)
-------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT        INITIAL          LINE 1 OF        LINE 2 OF                  SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH         VALUE        COLUMN HEADING   COLUMN HEADING                73 TO 80
-------------------------------------------------------------------------------------------------------------------
(TF) (NEW-OCC ) ( 23) (C)
(TF) (TRAN-ID ) (  2) (C)
(TF) (DATA1   ) (255) (C)
(TF) (DATA2   ) (255) (C)
(TF) (DATA3   ) (255) (C)
(TF) (DATA4   ) (209) (C)
-------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )   (EQ)   (C,RR                             )
(PR)(120)     (A)  (F,TRAN    )   (EQ)   (D,1                              )
(PR)(130)                         (R )   (X,NEW-OCC                        )  (T,NEW-OCC )
(PR)(140)           (STATUS  )   (EQ)   (C,1                              )
(PR)(150)                         (NS)     (180                            )
(PR)(160)                         (R )   (C,N                              )  (T,TRAN-ID )
(PR)(170)                         (GO)     (SUB EDA4NDEF                   )
(PR)(180)           (SCOPE-NT)   (NE)   (C)
(PR)(190)                         (NS)     (230                            )
(PR)(200)                         (R )   (C,R                              )  (T,TRAN-ID )
(PR)(210)                         (R )     (SCOPE-NT                       )  (T,DATA1   )
(PR)(220)                         (GO)     (SUB EDA4NDEF                   )
(PR)(230)           (DEFINITN)   (NE)   (C)
(PR)(240)                         (NS)     (420                            )
(PR)(250)                         (R )   (C,B                              )  (T,TRAN-ID )
(PR)(260)                         (R )     (DEFINITN                       )  (T,DATA1   )
(PR)(270)           (DEFINITN)   (SL)   (P,#*7*#                          )
(PR)(280)                         (NS)     (290                            )
(PR)(290)         (F,LNUMBER )   (GT)   (D,255                            )
(PR)(300)                         (NS)     (410                            )
(PR)(310)                         (R )   (D,256                            )  (F,RSTART  )
(PR)(320)                         (R )     (DEFINITN                       )  (T,DATA2   )  (RS)      (B)
(PR)(330)         (F,LNUMBER )   (GT)   (D,510                            )
(PR)(340)                         (NS)     (410                            )
(PR)(350)                         (R )   (D,511                            )  (F,RSTART  )
(PR)(360)                         (R )     (DEFINITN                       )  (T,DATA3   )  (RS)      (B)
(PR)(370)         (F,LNUMBER )   (GT)   (D,765                            )
(PR)(380)                         (NS)     (410                            )
(PR)(390)                         (R )   (D,766                            )  (F,RSTART  )
(PR)(400)                         (R )     (DEFINITN                       )  (T,DATA4   )  (RS)      (B)
(PR)(410)                         (GO)     (SUB EDA4NDEF                   )
(PR)(420)                         (R )   (D,1                              )  (F,DELETE  )
(PR)(430)                         (R )   (D,20                             )  (F,CONDCODE)
```

```
                                            ****************************************
                                            *       DUMP OF CATALOGED REQUESTS     *
                                            * GROUP - EDA4UT06  REQUEST - EDA4RFAD *
                                            ****************************************
-----------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************** *****
COMMENT *****                                                                *****
COMMENT ***** EDA4RFAD:                                                      *****
COMMENT *****    EXECUTED AFTER APPLICATION OF ALL TRANSACTIONS TO THE       *****
COMMENT *****    MASTER FILE RECORD.  CREATES THE MAIN ENTRY REPORT LINE     *****
COMMENT *****    FOR ANY RECORD WITH ADDED REFERENCES AND RESETS FLAG.       *****
COMMENT *****                                                                *****
COMMENT ***** ************************************************************** *****
-----------------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF         LINE 2 OF                        SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING                      73 TO 80
-----------------------------------------------------------------------------------------------------------------------------
(TF) (D166    ) (  2) (F)               (166              )
-----------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR          73 TO 80
-----------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (T,RFADDFLG)   (EQ)   (C,1                               )
(PR)(120)                         (R )   (C,ADDED                           )  (T,CHG-TYPE)
(PR)(130)                         (R )     (TERM                            )  (T,SRT-TERM)
(PR)(140)                         (R )   (C)                                   (T,REL-TYPE)
(PR)(150)                         (R )   (C,(                               )  (T,LINE-BLD)
(PR)(160)          (T,LINE-BLD)   (CO)     (TERM                            )  (T,LINE-BLD)
(PR)(170)          (T,LINE-BLD)   (CO)   (C,)                               )  (T,LINE-BLD)
(PR)(180)                         (GO)     (SUB EDA4THCR                    )
(PR)(190)                         (R )   (C)                                   (T,RFADDFLG)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4US05  REQUEST - EDA4ROCC *
                                        ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (3)
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT          QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )    (EQ)   (C,MR                               )
(PR)(120)      (A) (F,TRAN    )    (EQ)   (D,1                                )
(PR)(130)                          (NS)     (END                              )
(PR)(140)            (OCC     )    (FS)   (X,OCC-ID                           )
(PR)(150)                          (R )   (X,NEW-OCC                          )    (OCC-ID  )
```

```
                        ****************************************
                        *      DUMP OF CATALOGED REQUESTS      *
                        * GROUP - EDA4USUS  REQUEST - EDA4RTXT *
                        ****************************************
----------------------------------------------------------------------------------------------------------
CARD REPORT                              MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID       ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                    (3)
----------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING              73 TO 80
----------------------------------------------------------------------------------------------------------
(TF)  (NEW-TERM) (154) (C)
----------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID )  (EQ)   (C,M1                              )
(PR)(120)     (A) (F,TRAN    )  (EQ)   (D,1                               )
(PR)(130)                       (NS)     (160                             )
(PR)(140)                       (R )   (X,NEW-TEXT                        )  (T,NEW-TERM)
(PR)(150)                       (GO)     (END                             )
(PR)(160)         (X,TRAN-ID )  (EQ)   (C,M2                              )
(PR)(170)     (A) (F,TRAN    )  (EQ)   (D,1                               )
(PR)(180)                       (NS)     (210                             )
(PR)(190)                       (R )   (X,NEW-TEXT                        )  (T,NEW-TERM)  (56) (55) (C)
(PR)(200)                       (GO)     (END                             )
(PR)(210)         (X,TRAN-ID )  (EQ)   (C,M3                              )
(PR)(220)     (A) (F,TRAN    )  (EQ)   (D,1                               )
(PR)(230)                       (R )   (D,111                             )  (F,RSTART  )
(PR)(240)                       (R )   (D,44                              )  (F,RNUMBER )
(PR)(250)                       (R )   (X,NEW-TEXT                        )  (T,NEW-TERM)  (RS) (RN) (C)
(PR)(260)                       (GO)     (SUB EDA4NTXT                    )
(PR)(270)                       (R )   (D,1                               )  (F,DELETE  )
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UT06  REQUEST - EDA4RTYP *
                                        ****************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET   BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID         ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME  CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (3)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4RTYP:                                                   *****
COMMENT *****    EXECUTED AFTER APPLICATION OF EACH TRANSACTION TO MASTER *****
COMMENT *****    FILE RECORD.                                             *****
COMMENT *****       LINES 110-160 SET REFERENCE TYPE FOR "USE" REFERENCE  *****
COMMENT *****       LINES 170-210 SET REFERENCE TYPE FOR "USE AND"        *****
COMMENT *****                     REFERENCES                              *****
COMMENT *****       LINES 220-240 SET REFERENCE TYPE FOR "SEE" REFERENCES *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,UN                             )
(PR)(120)          (X,TRAN-ID )   (EQ)   (C,UR                             )
(PR)(130)          (X,TRAN-ID )   (EQ)   (C,MU                             )
(PR)(140)                         (NS)     (170                            )
(PR)(150)                         (R )   (C,U                              )  (N,LEREFTYP)
(PR)(160)                         (GO)     (END                            )
(PR)(170)          (X,TRAN-ID )   (EQ)   (C,UA                             )
(PR)(180)          (X,TRAN-ID )   (EQ)   (C,MA                             )
(PR)(190)                         (NS)     (220                            )
(PR)(200)                         (R )   (C,A                              )  (N,LEREFTYP)
(PR)(210)                         (GO)     (END                            )
(PR)(220)          (X,TRAN-ID )   (EQ)   (C,SE                             )
(PR)(230)          (X,TRAN-ID )   (EQ)   (C,MS                             )
(PR)(240)                         (R )   (C,S                              )  (N,LEREFTYP)
```

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                                         ****************************************
                                         *      DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4IS02  REQUEST - EDA4SEND *
                                         ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET   BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )                                                                        (E)
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING                   73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (TBL-ARG ) ( 42) (C)                 (EDA4STIDTE  1   )
(TF) (BLNK    ) ( 21) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )    (T,TERM-ID                         )  (T,CNTLPARM)  ( 1) ( 5) (C)
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  R  PG  PG   I SP  MAXIMUM 1B COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE............ C EMP         SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME       BLK/ FMT H FLD         73 TO 80
 DP     P              G             LT TYP POS         NUM      ML TD REC               BUF      B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)    (EDA4STID)(    1)(F)
------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C      PICTURE     STRT NO     SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T       EDIT      CHR CHR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T,TBL-ARG )
(R1)(120)( 0)(T,CNTLPARM)
(R1)(130)( 0)(T,BLNK    )
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA41S02  REQUEST - EDA4SETC *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS   TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    ............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(100)         (F,TRAN     )   (EQ)    (D,2                              )
(PR)(110)         (F,TRAN     )   (EQ)    (D,3                              )
(PR)(120)         (F,TRAN     )   (EQ)    (D,6                              )
(PR)(130)         (F,TRAN     )   (EQ)    (D,7                              )
(PR)(140)                         (R )    (C,999999999999999999999999999999 )    (CODE    )
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4IS02  REQUEST - EDA4SINT *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                   73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (CNTLPARM) ( 17) (C)
(TF) (CNTL-ARG) (  1) (C)                (1               )
(TF) (TERM-ID ) (  5) (C)
(TF) (TODAY   ) (  6) (C)
(TF) (STARTFLG) (  1) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)          (T,STARTFLG)   (EQ)   (C)
(PR)(120)          (T,CNTL-ARG)   (TL)   (L,EDA4STID                       )  (T,CNTLPARM)
(PR)(130)          (T,CNTLPARM)   (EQ)   (T,CNTLPARM                       )
(PR)(140)                         (NS)     (SUB EDA4IERR                   )
(PR)(150)                         (R )   (T,CNTLPARM                       )  (T,TERM-ID )  ( 1) ( 5) (B)
(PR)(160)                         (R )   (T,CNTLPARM                       )  (T,TODAY   )  (12) ( 6) (B)
(PR)(170)                         (R )   (T,TODAY                          )  (T,CNTLPARM)  ( 6) ( 6) (C)
(PR)(180)                         (R )   (F,TODAY                          )  (T,CNTLPARM)  (12) ( 6) (C)
(PR)(190)                         (R )   (C,1                              )  (T,STARTFLG)
(PR)(200)                         (R )   (D,1                              )  (F,CONDCODE)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4IS02  REQUEST - EDA4SPRC *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------
CARD REPORT                                       MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(090)         (F,CONDCODE)    (EQ)   (D,1                                )
(PR)(100)                         (NS)     (SUB EDA4IERR                     )
(PR)(110)         (F,TRAN     )   (EQ)   (D,2                                )
(PR)(120)         (F,TRAN     )   (EQ)   (D,3                                )
(PR)(130)         (F,TRAN     )   (EQ)   (D,6                                )
(PR)(140)         (F,TRAN     )   (EQ)   (D,7                                )
(PR)(150)         (T,TERM-ID )    (+ )   (D,1                                )  (T,TERM-ID )
(PR)(160)                         (R )   (T,TERM-ID                          )     (TERM-ID )
```

```
                                              ********************************************
                                              *      DUMP OF CATALOGED REQUESTS          *
                                              * GROUP - EDA4IS02  REQUEST - EDA4STCP     *
                                              ********************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                                             (Y)
COMMENT ***** ********************************************************** *****
COMMENT *****                                                            *****
COMMENT ***** THE SOURCE TERM CHANGE REPORT CAN BE USED IN ANY RUN THAT  *****
COMMENT ***** UPDATES THE SOURCE TERM FILE TO PRINT THE CONTENTS OF      *****
COMMENT ***** UPDATED RECORDS.  A LIST TRANSACTION HAS BEEN PROVIDED TO  *****
COMMENT ***** PRINT SELECTED RECORDS WITHOUT MAKING ANY CHANGES TO THE   *****
COMMENT ***** DATA.  THE SOURCE CODE IS CONTAINED IN FIVE REQUESTS:      *****
COMMENT *****                                                            *****
COMMENT ***** EDA4STCP CREATES REPORT LINES FOR DATA CONTAINED IN THE    *****
COMMENT *****          BASE SEGMENT AND THE TEXT AND OCCURRENCE SEGMENTS *****
COMMENT *****          OF THE RECORD.                                    *****
COMMENT ***** EDA4STCX CREATES REPORT LINES FOR CROSS-REFERENCES.        *****
COMMENT ***** EDA4STCT PERFORMS A WRAP-AROUND ON TERMS LONGER THAN 87    *****
COMMENT *****          CHARACTERS.                                       *****
COMMENT ***** EDA4STCR OUTPUTS THE REPORT LINES.                         *****
COMMENT ***** EDA4FMTC FORMATS THE CODE FOR PRINTING.                    *****
COMMENT *****                                                            *****
COMMENT ***** TEMPORARY FIELDS:                                          *****
COMMENT *****    CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING   *****
COMMENT *****                ROUTINE                                     *****
COMMENT *****    CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE     *****
COMMENT *****    TEXT     -- WORK FIELD USED TO PASS TEXT TO WRAP-       *****
COMMENT *****                AROUND ROUTINE                              *****
COMMENT *****    TEXT1    -- WORK FIELD USED TO RETURN FIRST LINE OF WRAP *****
COMMENT *****                AROUND                                      *****
COMMENT *****    TEXT2    -- WORK FIELD USED TO RETURN SECOND LINE OF    *****
COMMENT *****                WRAP-AROUND                                 *****
COMMENT *****    LINE-OUT -- REPORT LINE                                 *****
COMMENT *****    LINE-NO  -- NON-PRINTING FIELD AVAILABLE TO CHANGE      *****
COMMENT *****                SEQUENCE OF REPORT TO ALPHABETICAL (ASSUMING *****
COMMENT *****                USUAL UPDATE SEQUENCING BY TERM ID)         *****
COMMENT *****    D155     -- BINARY CONSTANT USED TO DETERMINE LENGTH OF *****
COMMENT *****                SECOND HALF OF WRAP-AROUND                  *****
COMMENT *****    TERM-ID  -- WORK FIELD USED TO CONVERT BINARY FIELD TO  *****
COMMENT *****                CHARACTER STRING                            *****
COMMENT *****                                                            *****
COMMENT ***** EDA4STCP:                                                  *****
COMMENT *****    LINE  090     TESTS FOR TRANSACTION ACTIVITY            *****
COMMENT *****    LINES 100-180 CREATE FIRST LINE CONTAINING TERM-ID,     *****
COMMENT *****                  FIRST PORTION OF TERM AND GLOSSARY        *****
COMMENT *****                  STRUCTURE CODE                            *****
COMMENT *****    LINES 190-240 OUTPUT THE SECOND PORTION OF THE TERM IF  *****
COMMENT *****                  THERE IS ONE                              *****
COMMENT *****    LINE  250     INITIATES AUTOMATIC LOOPING ON THE TEXT   *****
COMMENT *****                  SEGMENT                                   *****
COMMENT *****    LINES 260-280 OUTPUT A BLANK LINE                       *****
COMMENT *****    LINES 290-400 OUTPUT THE ORIGINAL FORM OF THE TERM      *****
COMMENT *****    LINES 410-490 OUTPUT OCCURRENCE DATA FOR THE TERM FORM  *****
COMMENT *****                  JUST PRINTED                              *****
COMMENT *****                                                            *****
COMMENT ***** ********************************************************** *****
```

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-----------------------------------------------------------------------------------------------------------------------
CARD  FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF       LINE 2 OF                      SEQUENCE
TYPE  NAME       LNGTH TYP PLC EDIT  LGTH       VALUE          COLUMN HEADING  COLUMN HEADING                  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(TF) (CODEIN   ) ( 30) (C)
(TF) (CODEOUT  ) ( 36) (C)
(TF) (TEXT     ) (154) (C)
(TF) (TEXT1    ) ( 87) (C)
(TF) (TEXT2    ) ( 87) (C)
(TF) (LINE-OUT) (132) (C)
(TF) (D155     ) (  2) (F)              (155            )
(TF) (TERM-ID  ) (  5) (C)
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME  ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(090)         (F,TRAN    )    (NE)  (D,0                              )
(PR)(100)                         (R )    (TERM-ID                        )  (T,TERM-ID )
(PR)(110)                         (R )  (T,TERM-ID                        )  (T,LINE-OUT)
(PR)(120)                         (R )    (TERM                           )  (T,TEXT    )
(PR)(130)                         (GO)    (SUB EDA4STCT                   )
(PR)(140)                         (R )  (T,TEXT1                          )  (T,LINE-OUT)  ( 8) (87) (C)
(PR)(150)                         (R )    (CODE                           )  (T,CODEIN  )
(PR)(160)                         (GO)    (SUB EDA4FMTC                   )
(PR)(170)                         (R )  (T,CODEOUT                        )  (T,LINE-OUT)  (97) (36) (C)
(PR)(180)                         (GO)    (SUB EDA4STCR                   )
(PR)(190)         (T,TEXT2   )    (NE)  (C)
(PR)(200)                         (NS)    (250                            )
(PR)(210)                         (R )  (C)                                  (T,LINE-OUT)
(PR)(220)                         (R )  (T,TEXT2                          )  (T,LINE-OUT)  ( 8) (87) (C)
(PR)(240)                         (GO)    (SUB EDA4STCR                   )
(PR)(250)           (ORIGINAL)    (EQ)    (ORIGINAL                       )
(PR)(270)                         (R )  (C)                                  (T,LINE-OUT)
(PR)(280)                         (GO)    (SUB EDA4STCR                   )
(PR)(290)                         (R )  (C,ORIGINAL TEXT:                 )  (T,LINE-OUT)  ( 8) (14) (C)
(PR)(300)                         (R )    (ORIGINAL                       )  (T,TEXT    )
(PR)(310)                         (GO)    (SUB EDA4STCT                   )
(PR)(320)         (T,LINE-OUT)    (C2)  (T,TEXT1                          )  (T,LINE-OUT)
(PR)(340)                         (GO)    (SUB EDA4STCR                   )
(PR)(350)         (T,TEXT2   )    (NE)  (C)
(PR)(360)                         (NS)    (410                            )
(PR)(370)                         (R )  (C)                                  (T,LINE-OUT)
(PR)(380)                         (R )  (T,TEXT2                          )  (T,LINE-OUT)  (24) (87) (C)
(PR)(400)                         (GO)    (SUB EDA4STCR                   )
(PR)(410)                         (R )  (C)                                  (T,LINE-OUT)
(PR)(415)                         (R )  (C,SOURCE:                        )  (T,LINE-OUT)  (24) (87) (C)
(PR)(420)                         (R )  (C,PAGE:                          )  (T,LINE-OUT)  (51) ( 5) (C)
(PR)(430)                         (R )  (C,SEQUENCE:                      )  (T,LINE-OUT)  (64) ( 9) (C)
(PR)(440)           (SRC-ID  )    (EQ)    (SRC-ID                         )
(PR)(450)                         (R )    (SRC-ID                         )  (T,LINE-OUT)  (33) (16) (C)
(PR)(460)                         (R )    (SRC-LOC                        )  (T,LINE-OUT)  (58) ( 4) (C)
(PR)(470)                         (R )    (SRC-SEQ                        )  (T,LINE-OUT)  (75) ( 3) (C)
(PR)(490)                         (GO)    (SUB EDA4STCR                   )
```

```
                                         *****************************************
                                         *      DUMP OF CATALOGED REQUESTS       *
                                         * GROUP - EDA4IS02  REQUEST - EDA4STCR  *
                                         *****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE  REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS   TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                         (S)
COMMENT ***** ************************************************************* *****
COMMENT *****                                                               *****
COMMENT ***** EDA4STCR:                                                     *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  OUTPUTS     *****
COMMENT *****    SOURCE TERM CHANGE REPORT LINES.  (NOTE: MOST UPDATES      *****
COMMENT *****    ARE PERFORMED WITH THE FILE IN TERM ID SEQUENCE.  IF AN    *****
COMMENT *****    ALPHABETICAL REPORT IS DESIRED, THE NON-PRINTING FIELDS    *****
COMMENT *****    MAY BE USED TO SEQUENCE THE REPORT.)                       *****
COMMENT *****                                                               *****
COMMENT ***** ************************************************************* *****
------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG    I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE......... C EMP            SEQUENCE
 RY RPT S LPI WID HGT   M FRK LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT    NAME     BLK/ FMT H FLD            73 TO 80
 UP     P               G             LT TYP POS         NUM      ML TD REC             BUF   . B CTL
------------------------------------------------------------------------------------------------------------------------
(E1)                                     (X)
------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C   M  M  A D Q PCT/RAT      P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N   A  I  V E L  FIELD   RA- C      PICTURE     STRT NO      SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T   X  N  G C F  NAME    TIO T       EDIT       CHR CHR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)  (ALPHKEY )    (Y)      (1)
(R1)(130)( 0)(T,LINE-OUT)
------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                        SEQUENCE
TYPE  NO.                                                   TEXT                                                 73 TO 80
------------------------------------------------------------------------------------------------------------------------
(T1) (140)                    (SOURCE TERM CHANGES#                                         )
(T1) (150)                    (DURING THIS RUN#                                             )
(T1)(160) (#)
(T1)(170) (#)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4IS02  REQUEST - EDA4STCT *
                                        ****************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4STCT:                                                    *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.             *****
COMMENT *****       LINES 110-150 INITIALIZE RETURN FIELDS FOR TERMS LESS *****
COMMENT *****                     THAN WRAP-AROUND LENGTH                  *****
COMMENT *****       LINES 160-190 PERFORM WRAP-AROUND                      *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OVR     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(110)           (T,TEXT    )  (EQ)   (C)                                                   (88) ( 4) (A)
(PR)(120)                         (NS)     (160                            )
(PR)(130)                         (R )   (T,TEXT                           ) (T,TEXT1    )  ( 1) (87) (B)
(PR)(140)                         (R )   (C)                                 (T,TEXT2    )
(PR)(150)                         (GO)     (RETURN                         )
(PR)(160)           (T,TEXT    )  (SR)   (P,B                              )                ( 1) (88) (A)
(PR)(170)                         (R )   (T,TEXT                           ) (T,TEXT1    )  ( 1) (LN) (B)
(PR)(180)           (T,DISS    )  (- )   (F,RSTART                         ) (F,RNUMBER  )
(PR)(190)                         (R )   (T,TEXT                           ) (T,TEXT2    )  (RS) (RN) (B)
```

```
                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4IS02  REQUEST - EDA4STCX *
                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4STCX:                                                   *****
COMMENT *****    LINE  100     TESTS FOR TRANSACTION ACTIVITY             *****
COMMENT *****    LINES 110-130 OUTPUT A BLANK LINE                        *****
COMMENT *****    LINES 140-190 OUTPUT CROSS-REFERENCES                    *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT      QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(100)          (F,TRAN    )   (NE)   (D,0                              )
(PR)(110)                         (R )   (C)                                  (T,LINE-OUT)
(PR)(130)                         (GO)     (SUB EDA4STCR                   )
(PR)(140)                         (R )   (C,CROSS-REFERENCES:              )  (T,LINE-OUT)  ( 8) (17) (C)
(PR)(150)            (XREF    )   (EQ)     (XREF                           )
(PR)(160)                         (R )     (XREF                           )  (T,LINE-OUT)  (27) (55) (C)
(PR)(180)                         (GO)     (SUB EDA4STCR                   )
(PR)(190)                         (R )   (C)                                  (T,LINE-OUT)
```

SOURCE CODE - 107

```
                                          *****************************************
                                          *      DUMP OF CATALOGED REQUESTS       *
                                          * GROUP - EDA4ES02  REQUEST - EDA4STTE *
                                          *****************************************
---------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET     BACK BR REINIT SEQUENCE
TYPE  DATE            REQUFSTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME    CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(EH)(DATE  )
---------------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                       SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE        COLUMN HEADING   COLUMN HEADING                     73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(TF)  (TRANFLAG) (  1) (C)
(TF)  (SRC-HDR ) ( 22) (V)
---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(001)           (T,SRC-HDR )   (EQ)   (C)
(PR)(002)                          (NS)     (010                               )
(PR)(003)             (SRC-TYPE)   (EQ)   (C,2                                 )
(PR)(004)                          (NS)     (007                               )
(PR)(005)                          (R )   (C,, SECTION/PARAGRAPH:              )  (T,SRC-HDR )
(PR)(006)                          (GO)     (010                               )
(PR)(007)                          (R )   (C,, SOURCE DOCUMENT:                )  (T,SRC-HDR )
(PR)(010)           (F,TRAN    )   (EQ)   (D,0                                 )
(PR)(020)                          (NS)     (050                               )
(PR)(030)                          (R )   (C)                                     (T,TRANFLAG)
(PR)(040)                          (GO)     (OUTPUT                            )
(PR)(050)                          (R )   (C,*                                 )  (T,TRANFLAG)
---------------------------------------------------------------------------------------------------------------------------
          SP  Q                E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT        P                   PARTIAL
CARD SEQ  BF  L  FIELD         N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA-  C      PICTURE      STRT NO       SEQUENCE
TYPE NO.  COL F  NAME          D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO  T       EDIT        CHR CHR       73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(R1)(080)     (N,SRC-TYPE)    (Y)
(R1)(090)     (T,SRC-HDR )    (Y)
(R1)(100)     (N,SRC-ID  )    (Y)      (1)
(R1)(110)     (N,SRC-LOC )    (Y)      (2)
(R1)(115)( 9)(T,TRANFLAG)
(R1)(120)( 2)(N,SRC-SEQ )
(R1)(140)( 5)(N,TERM1    )(Y)                    (G)
(R1)(150)(20)(N,TERM2    )(Y)
(R1)(160)(20)(N,TERM3    )
---------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                   SEQUENCE
TYPE  NO.                                                   TEXT                                            73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(F1)  (005)                   (132B ##                                                     )
(F1)  (008)                   (F.DATE# 40B #SOURCE TERM TRANSACTION EDIT#                  )
(F1)  (010)                   (40B F.PAGE# ##                                              )
(F1)  (011)                   (132B ##                                                     )
(F1)  (015)                   (47B #SOURCE TYPE:  # N.SRC-TYPE#                            )
(F1)  (016)                   (T.SRC-HDR# 2B N.SRC-ID# ##                                  )
(F1)  (030)                   (132B ##                                                     )
(F1)(040) (#)       (------------------------------------------------------------)(-)
(F1)  (041)                   (------------------------------------------------------------)
(F1)  (045)                   (-------------#         ##                                   )
```

```
----------------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                            SEQUENCE
TYPE  NO.                                              TEXT                                                          73 TO 80
----------------------------------------------------------------------------------------------------------------------------------
(F1) (050)                (11B      #I.D.     TERM# ##                                    )
(F1)(060) (#)      (---------------------------------------------------------------)(-)
(F1) (061)                (-----------------------------------------------------------)
(F1) (065)                (-------------#     ##                                      )
(F1) (067)                (132B ##                                                    )
(F1)(070) (#)      (PAGE # N.SRC-LOC# ##                                   )
(F1) (090)                (16D ##                                                     )
(F1) (095)                (GL #TOTAL NUMBER OF TERMS:# 2B COUNT N.TERM1#G ##          )
(F1) (100)                (15##                                                       )
(F1)(110) (*)      (* MEANS ENTRY WAS ADDED OR CHANGED DURING LAST RUN# ##    )
```

```
                                   ***************************************
                                   *      DUMP OF CATALOGED REQUESTS      *
                                   * GROUP - EDA4UT06  REQUEST - EDA4T-M  *
                                   ***************************************

---------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
---------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** UPDATE OF THE THESAURUS FILE IS A MULTISTEP PROCESS          *****
COMMENT ***** INVOLVING TRANSFORMATION OF THE "LE" TRANSACTIONS,           *****
COMMENT ***** VERIFICATION OF ALL TRANSACTIONS ENTERED, AND IF ALL         *****
COMMENT ***** TRANSACTIONS ARE CORRECT, UPDATE OF THE MASTER FILE.  THE    *****
COMMENT ***** SOURCE CODE FOR THE UPDATE STEP IS CONTAINED IN EIGHT        *****
COMMENT ***** REQUESTS THAT CREATE A NEW MASTER FILE FROM THE OLD          *****
COMMENT ***** MASTER AND TRANSACTION FILES AND GENERATE A REPORT OF ALL    *****
COMMENT ***** CHANGES MADE.                                                *****
COMMENT *****                                                              *****
COMMENT ***** EDA4T-M  DELETES ALL CURRENT REFERENCES WHEN A CHANGE        *****
COMMENT *****          TRANSACTION FOR A LEAD-IN ENTRY IS ENCOUNTERED.     *****
COMMENT ***** EDA4THCT CREATES LINES FOR THE THESAURUS CHANGE REPORT.      *****
COMMENT ***** EDA4THCR OUTPUTS REPORT LINES.                               *****
COMMENT ***** EDA4RTYP SETS THE REFERENCE TYPE FIELD FOR NEW OR CHANGED    *****
COMMENT *****          LEAD-IN REFERENCES.                                 *****
COMMENT ***** EDA4LERJ TESTS FOR CONDITIONS TO OUTPUT A REPORT LINE FOR    *****
COMMENT *****          NEW LEAD-IN ENTRIES.                                *****
COMMENT ***** EDA4THCM CREATES REPORT LINES FOR CONTROLLED VOCABULARY      *****
COMMENT *****          TERMS WITH DELETED REFERENCES AND RESETS FLAGS.     *****
COMMENT ***** EDA4TCHG CREATES REPORT LINES FOR SCOPE NOTE CHANGES.        *****
COMMENT ***** EDA4RFAD CREATES REPORT LINES FOR CONTROLLED VOCABULARY      *****
COMMENT *****          TERMS WITH ADDED REFERENCES.                        *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    DEL-MFLG -- FLAG USED TO CONTROL DELETION OF OLD          *****
COMMENT *****                REFERENCES ON A LEAD-IN ENTRY CHANGE          *****
COMMENT *****    CHG-TYPE -- REPORT FIELD                                  *****
COMMENT *****    SRT-TERM -- NON-PRINTING REPORT FIELD USED FOR            *****
COMMENT *****                SEQUENCING REPORT LINES                       *****
COMMENT *****    REL-TYPE -- NON-PRINTING REPORT FIELD USED FOR            *****
COMMENT *****                SEQUENCING REPORT LINES                       *****
COMMENT *****    LINE-BLD -- REPORT LINE                                   *****
COMMENT *****    DELETSEG -- FLAG INDICATING RECORD WITH ONE OR MORE       *****
COMMENT *****                DELETED REFERENCES                            *****
COMMENT *****    SNCHGFLG -- FLAG INDICATING CHANGE OF SCOPE NOTE          *****
COMMENT *****    RFADDFLG -- FLAG INDICATING RECORD WITH ONE OR MORE       *****
COMMENT *****                ADDED REFERENCES                              *****
COMMENT *****    LEREFFLG -- FLAG USED IN GENERATING REPORT LINES FOR      *****
COMMENT *****                ADDED OR CHANGED LEAD-IN ENTRY REFERENCES     *****
COMMENT *****    MFLG     -- FLAG INDICATING LEAD-IN ENTRY RECORD WITH     *****
COMMENT *****                CHANGED REFERENCES                            *****
COMMENT *****    NO-LEREF -- FLAG USED IN GENERATING REPORT LINES FOR      *****
COMMENT *****                DELETED LEAD-IN ENTRIES                       *****
COMMENT *****    CHANGSEG -- FLAG USED FOR THESAURUS RECONCILIATION (NOT   *****
COMMENT *****                USED DURING UPDATE)                           *****
COMMENT *****    D166     -- BINARY CONSTANT USED IN SCOPE NOTE WRAP-      *****
COMMENT *****                AROUND                                        *****
COMMENT *****                                                              *****
COMMENT ***** EDA4T-M :                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****    MASTER FILE.                                             *****
COMMENT *****       LINES 110-114 TEST FOR FIRST TRANSACTION IN LEAD-IN   *****
COMMENT *****                     ENTRY CHANGE UNIT                       *****
COMMENT *****       LINE  116     SETS FLAG TO PREVENT FURTHER DELETIONS  *****
COMMENT *****                     ON THIS RECORD                          *****
COMMENT *****       LINES 120-130 DELETE OLD REFERENCE SEGMENTS           *****
COMMENT *****                                                             *****
COMMENT ***** ******************************************************** *****
-------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                  SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING               73 TO 80
-------------------------------------------------------------------------------------------------------------
(TF)  (DEL-MFLG) (   1) (C)
-------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-------------------------------------------------------------------------------------------------------------
(PR)(110)         (X,TRAN-ID1)    (EQ)   (C,M                                )
(PR)(114)     (A)  (T,DEL-MFLG)    (EQ)   (C)
(PR)(116)                         (R )   (C,1                                )  (T,DEL-MFLG)
(PR)(120)                         (R )   (C)                                    (N,LE-REF   )
(PR)(130)                         (R )   (D,2                                )  (F,DELETE   )
```

```
                          ******************************************
                          *      DUMP OF CATALOGED REQUESTS        *
                          * GROUP - EDA4UT06  REQUEST - EDA4TCHG   *
                          ******************************************
------------------------------------------------------------------------------------------------------------
CARD REPORT                                MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------
(ER)(DATE   )
COMMENT ***** ******************************************************* *****
COMMENT *****                                                         *****
COMMENT ***** EDA4TCHG:                                               *****
COMMENT *****    EXECUTED AFTER APPLICATION OF ALL TRANSACTIONS TO THE      *****
COMMENT *****    MASTER FILE RECORD.  CREATES REPORT LINES FOR UPDATED      *****
COMMENT *****    VERSION OF SCOPE NOTE.  (NOTE:  SINCE THE SCOPE NOTE       *****
COMMENT *****    ALWAYS EXISTS AS PART OF THE BASE SEGMENT, ADDITIONS AND   *****
COMMENT *****    DELETIONS ARE REGARDED AS CHANGES.)                        *****
COMMENT *****       LINES 110-146 SET UP BASIC REPORT FIELDS AND TEST       *****
COMMENT *****                     FLAG FOR SCOPE NOTE CHANGE                *****
COMMENT *****       LINES 148-152 TEST FOR NEED TO WRAP-AROUND              *****
COMMENT *****       LINES 154-158 PERFORM WRAP-AROUND AND OUTPUT FIRST      *****
COMMENT *****                     LINE                                      *****
COMMENT *****       LINES 159-166 PREPARE SECOND LINE FOR OUTPUT            *****
COMMENT *****       LINE  168     MOVES SHORT SCOPE NOTE INTO OUTPUT        *****
COMMENT *****                     FIELD                                     *****
COMMENT *****       LINES 170-180 CALL OUTPUT ROUTINE AND BRANCH AROUND     *****
COMMENT *****                     LEAD-IN ENTRY TEST                        *****
COMMENT *****       LINE  190     TESTS FOR CHANGED LEAD-IN ENTRY           *****
COMMENT *****                     REFERENCES                                *****
COMMENT *****       LINES 200-240 OUTPUT MAIN ENTRY REPORT LINE FOR         *****
COMMENT *****                     CHANGED SCOPE NOTE OR LEAD-IN             *****
COMMENT *****                     REFERENCES                                *****
COMMENT *****       LINES 250-260 RESET FLAGS                               *****
COMMENT *****                                                         *****
COMMENT ***** ******************************************************* *****
------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT     INITIAL          LINE 1 OF       LINE 2 OF                      SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH      VALUE         COLUMN HEADING  COLUMN HEADING                  73 TO 80
------------------------------------------------------------------------------------------------------------
(TF) (D166    ) (  2) (F)                   (166              )
------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B..............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------
(PR)(110)                         (R )    (C,CHANGED                          )  (T,CHG-TYPE)
(PR)(120)          (T,SNCHGFLG)   (EQ)    (C,1                                )
(PR)(130)                         (NS)      (190                              )
(PR)(140)                         (R )    (C,0                                )  (T,REL-TYPE)
(PR)(146)                         (R )    (C,    SN                           )  (T,LINE-BLD)
(PR)(148)                         (R )    (D,120                              )  (F,RSTART  )
(PR)(150)            (SCOPE-NT)   (NE)    (C)                                                   (RS) ( 4) (A)
(PR)(152)                         (NS)      (168                              )
(PR)(154)            (SCOPE-NT)   (SR)    (P,B                                )                 ( 1) (RS) (A)
(PR)(156)          (T,LINE-BLD)   (C3)      (SCOPE-NT                         )  (T,LINE-BLD)  (LS) (LN) (B)
(PR)(158)                         (GO)      (SUB EDA4THCR                     )
(PR)(159)                         (R )    (C,1                                )  (T,REL-TYPE)
(PR)(160)                         (R )    (C)                                    (T,LINE-BLD)
(PR)(162)          (T,D166    )   (- )    (F,RSTART                           )  (F,RNUMBER )
(PR)(164)          (T,LINE-BLD)   (C8)      (SCOPE-NT                         )  (T,LINE-BLD)  (RS) (RN) (B)
```

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-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(166)                         (GO)     (170                              )
(PR)(168)         (T,LINE-BLD)    (C3)     (SCOPE-NT                         )  (T,LINE-BLD)
(PR)(170)                         (GO)     (SUB EDA4THCR                     )
(PR)(180)                         (GO)     (200                              )
(PR)(190)         (T,MFLG     )   (EQ)   (C,1                                )
(PR)(200)                         (R )   (C)                                    (T,REL-TYPE)
(PR)(210)                         (R )   (C,(                                )  (T,LINE-BLD)
(PR)(220)         (T,LINE-BLD)    (C0)     (TERM                             )  (T,LINE-BLD)
(PR)(230)         (T,LINE-BLD)    (C0)   (C,)                                )  (T,LINE-BLD)
(PR)(240)                         (GO)     (SUB EDA4THCR                     )
(PR)(250)                         (R )   (C)                                    (T,SNCHGFLG)
(PR)(260)                         (R )   (C)                                    (T,MFLG    )
```

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                                         ****************************************
                                         *      DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4US04  REQUEST - EDA4TERP *
                                         ****************************************
-------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                     (4)
COMMENT ***** ********************************************************* *****
COMMENT *****                                                           *****
COMMENT ***** THE TRANSACTION ERROR REPORT IS USED IN ALL VERIFICATION  *****
COMMENT ***** PROCEDURES TO PROVIDE AN EXPLANATION OF TRANSACTION ERRORS *****
COMMENT ***** AND PREVENT UPDATE OF THE MASTER FILE(S) UNTIL ALL ERRORS *****
COMMENT ***** ARE CORRECTED.  THE MAIN SOURCE CODE IS CONTAINED IN TWO  *****
COMMENT ***** REQUESTS (EDA4TERP AND EDA4TERR).  THE THESAURUS VERIFICA- *****
COMMENT ***** TION USES AN ADDITIONAL REQUEST NOT USED BY THE CLASSIFICA- *****
COMMENT ***** TION SCHEDULES VERIFICATION OR THE GLOSSARY VERIFICATION  *****
COMMENT ***** (EDA4LSUM).                                               *****
COMMENT *****                                                           *****
COMMENT ***** EDA4TERP DETERMINES THE TYPE OF ERROR FOUND, CONSTRUCTS THE *****
COMMENT *****          ERROR MESSAGE FOR OUTPUT, AND SETS THE CONDITION *****
COMMENT *****          CODE TO PREVENT EXECUTION OF ANY UPDATE STEPS.   *****
COMMENT ***** EDA4TERR OUTPUTS THE REPORT ENTRIES.                      *****
COMMENT ***** EDA4LSUM TESTS FOR INVALID LEAD-IN ENTRY UNITS, SETS THE  *****
COMMENT *****          CONDITION CODE, AND CONSTRUCTS THE ERROR MESSAGE *****
COMMENT *****          FOR OUTPUT.                                      *****
COMMENT *****                                                           *****
COMMENT ***** TEMPORARY FIELDS:                                         *****
COMMENT *****    MSG1     -- CHARACTER STRING CONSTANT USED IN REPORT   *****
COMMENT *****    ERRTYPE  -- REPORT FIELD CONTAINING ERROR ID           *****
COMMENT *****    MSG2     -- REPORT FIELD CONTAINING ERROR DESCRIPTION  *****
COMMENT *****    TRAN     -- REPORT FIELD CONTAINING REJECTED TRANSACTION *****
COMMENT *****    BLNKTFLG -- FLAG FOR BLANK TERM                        *****
COMMENT *****    CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING  *****
COMMENT *****                SUBROUTINE                                 *****
COMMENT *****    CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE    *****
COMMENT *****    KEY      -- FLAG USED TO DIFFERENTIATE BETWEEN CLASSIFI- *****
COMMENT *****                CATION SCHEDULES TERM OR CODE ERRORS       *****
COMMENT *****    OVRFLFLG -- FLAG FOR TRANSACTION FIELD OVERFLOW        *****
COMMENT *****    MISMTFLG -- FLAG FOR TRANSACTIONS USING AN INCORRECT   *****
COMMENT *****                COMBINATION OF CODE AND TERM               *****
COMMENT *****    CSFLG    -- FLAG FOR UNMATCHED SPELLING CHANGE TRANS-  *****
COMMENT *****                ACTIONS                                    *****
COMMENT *****    CORDLKUP -- FLAG FOR THESAURUS REFERENCE CHECKING      *****
COMMENT *****    GSC-DFLG -- FLAG FOR GLOSSARY STRUCTURE CODE CHECKING  *****
COMMENT *****    OCC-FLG  -- FLAG FOR OCCURRENCE UPDATES                *****
COMMENT *****                                                           *****
COMMENT ***** EDA4TERP:                                                 *****
COMMENT *****    EXECUTED FOR EACH REJECTED TRANSACTION.                *****
COMMENT *****       LINE   10      PREVENTS TERMINATION OF RUN DUE TO   *****
COMMENT *****                      ADDING REFERENCES THAT ARE ALREADY   *****
COMMENT *****                      THERE                                *****
COMMENT *****       LINE  000      MOVES TRANSACTION INTO REPORT FIELD  *****
COMMENT *****       LINES 005-030 INVALID TRANSACTION TYPE              *****
COMMENT *****       LINES 035-060 OVERFLOW ON TRANSACTION FIELD         *****
COMMENT *****       LINES 070-100 CODE FAILED NUMERIC EDIT              *****
COMMENT *****       LINES 105-135 BLANK TERM                            *****
COMMENT *****       LINES 140-195 DUPLICATE CLASSIFICATION CODE IN MASTER *****
COMMENT *****                      FILES                                *****
COMMENT *****      LINES 200-265 DUPLICATE TERM IN MASTER FILES         *****
COMMENT *****      LINES 270-325 CLASSIFICATION CODE DUPLICATED IN      *****
COMMENT *****                    TRANSACTION STREAM                     *****
COMMENT *****      LINES 330-395 TERM DUPLICATED IN TRANSACTION STREAM  *****
COMMENT *****      LINES 400-435 CLASSIFICATION CODE TO BE CHANGED OR   *****
COMMENT *****                    DELETED NOT FOUND IN MASTER FILES      *****
COMMENT *****      LINES 440-475 TERM TO BE CHANGED OR DELETED NOT FOUND *****
COMMENT *****                    IN MASTER FILES                        *****
COMMENT *****      LINES 530-585 TRANSACTION TERM ASSOCIATED WITH A     *****
COMMENT *****                    DIFFERENT CODE THAN THE ONE ALREADY IN *****
COMMENT *****                    USE IN THE CLASSIFICATION SCHEDULES    *****
COMMENT *****      LINES 590-625 UNMATCHED SPELLING CHANGE TRANSACTIONS *****
COMMENT *****      LINES 630-670 LEAD-IN ENTRY DUPLICATES CONTROLLED    *****
COMMENT *****                    VOCABULARY TERM                        *****
COMMENT *****      LINES 675-715 REFERENCE TERM NOT FOUND IN            *****
COMMENT *****                    CLASSIFICATION SCHEDULES               *****
COMMENT *****      LINES 720-750 INVALID LEAD-IN ENTRY UNIT             *****
COMMENT *****      LINES 755-795 INVALID LEAD-IN ENTRY UPDATE           *****
COMMENT *****      LINES 800-840 RECORD NOT FOUND IN MASTER FILE        *****
COMMENT *****      LINES 842-854 ENTRY ALREADY EXISTS IN MASTER FILE    *****
COMMENT *****      LINES 856-868 REFERENCE NOT FOUND IN MASTER RECORD   *****
COMMENT *****      LINES 870-880 MAXIMUM RECORD LENGTH EXCEEDED         *****
COMMENT *****      LINES 882-892 COUNT FIELD OVERFLOW                   *****
COMMENT *****      LINES 900-954 INVALID GLOSSARY STRUCTURE CODE        *****
COMMENT *****      LINES 980-986 UNIDENTIFIED ERROR                     *****
COMMENT *****      LINES 990-996 RESET FLAGS                            *****
COMMENT *****      LINE  998     SETS CONDITION CODE                    *****
COMMENT *****                                                           *****
COMMENT ***** ********************************************************* *****
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                   73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (MSG1    ) ( 11) (C)                 (ERROR TYPE      )
(TF) (ERRTYPE ) (  3) (C)
(TF) (MSG2    ) (105) (V)
(TF) (TRAN    ) ( 80) (C)
(TF) (BLNKTFLG) (  1) (C)
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
(TF) (KEY     ) (  1) (C)
(TF) (OVRFLFLG) (  1) (C)
(TF) (MISMTFLG) (  1) (C)
(TF) (CSFLG   ) (  1) (C)
(TF) (CORDLKUP) (  1) (C)
(TF) (GSC-DFLG) (  1) (C)
(TF) (OCC-FLG )       (1) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)( 10)           (F,XTRAN   )  (NE)   (D,14                                 )
(PR)(000)                         (R )   (X,TRAN                               )  (T,TRAN    )
(PR)(005)           (F,XTRAN   )  (EQ)   (D,2                                  )
(PR)(010)                         (NS)     (035                                )
(PR)(015)                         (R )   (C,1!                                 )  (T,ERRTYPE )
(PR)(020)                         (R )   (C,INVALID TRANSACTION TYPE           )  (T,MSG2    )
(PR)(025)                         (GO)     (SUB EDA4TERR                       )
(PR)(030)                         (GO)     (990                                )
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CARD SEQ  LOC CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(035)         (T,OVRFLFLG)    (EQ)   (C,1                              )
(PR)(040)                         (NS)     (070                            )
(PR)(045)                         (R )   (C,2:                             )  (T,ERRTYPE )
(PR)(050)                         (R )   (C,TERM OR CODE IS TOO LONG       )  (T,MSG2    )
(PR)(055)                         (GO)     (SUB EDA4TERR                   )
(PR)(060)                         (GO)     (990                            )
(PR)(070)         (F,XTRAN   )    (EQ)   (D,7                              )
(PR)(075)                         (NS)     (105                            )
(PR)(080)                         (R )   (C,3:                             )  (T,ERRTYPE )
(PR)(085)                         (R )   (C,CODE IS BLANK OR CONTAINS NON-N)  (T,MSG2    )
(PR)(090)         (T,MSG2    )    (CO)   (C,UMERIC CHARACTERS              )  (T,MSG2    )
(PR)(095)                         (GO)     (SUB EDA4TERR                   )
(PR)(100)                         (GO)     (990                            )
(PR)(105)         (T,BLNKTFLG)    (EQ)   (C,1                              )
(PR)(110)                         (NS)     (140                            )
(PR)(115)                         (R )   (C,4:                             )  (T,ERRTYPE )
(PR)(120)                         (R )   (C,FIRST CHARACTER OF TERM IS BLAN)  (T,MSG2    )
(PR)(125)         (T,MSG2    )    (CO)   (C,K                              )  (T,MSG2    )
(PR)(130)                         (GO)     (SUB EDA4TERR                   )
(PR)(135)                         (GO)     (990                            )
(PR)(140)         (T,KEY     )    (EQ)   (C,C                              )
(PR)(145)     (A) (F,XTRAN   )    (EQ)   (D,9                              )
(PR)(150)     (A) (F,TRAN    )    (EQ)   (D,4                              )
(PR)(155) (1)     (F,TRAN    )    (EQ)   (D,5                              )
(PR)(160)                         (NS)     (200                            )
(PR)(165)                         (R )   (C,5:                             )  (T,ERRTYPE )
(PR)(170)                         (R )   (C,CODE IS CURRENTLY IN USE FOR TE)  (T,MSG2    )
(PR)(175)         (T,MSG2    )    (CO)   (C,RM "                           )  (T,MSG2    )
(PR)(180)         (T,MSG2    )    (CO)   (O,TERM                           )  (T,MSG2    )
(PR)(185)         (T,MSG2    )    (CO)   (C,"                              )  (T,MSG2    )
(PR)(190)                         (GO)     (SUB EDA4TERR                   )
(PR)(195)                         (GO)     (990                            )
(PR)(200)         (T,KEY     )    (EQ)   (C,T                              )
(PR)(205)     (A) (F,XTRAN   )    (EQ)   (D,9                              )
(PR)(210)     (A) (F,TRAN    )    (EQ)   (D,4                              )
(PR)(215) (1)     (F,TRAN    )    (EQ)   (D,5                              )
(PR)(220)                         (NS)     (270                            )
(PR)(225)                         (R )   (C,6:                             )  (T,ERRTYPE )
(PR)(230)                         (R )   (C,TERM ALREADY EXISTS IN CLASSIFI)  (T,MSG2    )
(PR)(235)         (T,MSG2    )    (CO)   (C,CATION SCHEDULES WITH CODE "   )  (T,MSG2    )
(PR)(240)                         (R )   (O,CODE                           )  (T,CODEIN  )
(PR)(245)                         (GO)     (SUB EDA4FMTC                   )
(PR)(250)         (T,MSG2    )    (CO)   (T,CODEOUT                        )  (T,MSG2    )
(PR)(255)         (T,MSG2    )    (CO)   (C,"                              )  (T,MSG2    )
(PR)(260)                         (GO)     (SUB EDA4TERR                   )
(PR)(265)                         (GO)     (990                            )
(PR)(270)         (T,KEY     )    (EQ)   (C,C                              )
(PR)(275)     (A) (F,XTRAN   )    (EQ)   (D,9                              )
(PR)(280)     (A) (F,TRAN    )    (EQ)   (D,6                              )
(PR)(285) (1)     (F,TRAN    )    (EQ)   (D,7                              )
(PR)(290)                         (NS)     (330                            )
(PR)(295)                         (R )   (C,7:                             )  (T,ERRTYPE )
(PR)(300)                         (R )   (C,CODE APPEARS ON ANOTHER TRANSAC)  (T,MSG2    )
(PR)(305)         (T,MSG2    )    (CO)   (C,TION WITH TERM "               )  (T,MSG2    )
(PR)(310)         (T,MSG2    )    (CO)     (TERM                           )  (T,MSG2    )
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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR     73 TO 80
-------------------------------------------------------------------------------------------------------------------
(PR)(315)         (T,MSG2     )   (C0)   (C,"                               )  (T,MSG2     )
(PR)(320)                         (GO)     (SUB EDA4TERR                    )
(PR)(325)                         (GO)     (990                             )
(PR)(330)         (T,KEY      )   (EQ)   (C,T                               )
(PR)(335)     (A) (F,XTRAN    )   (EQ)   (D,9                               )
(PR)(340)     (A) (F,TRAN     )   (EQ)   (D,6                               )
(PR)(345) (1)     (F,TRAN     )   (EQ)   (D,7                               )
(PR)(350)                         (NS)     (400                             )
(PR)(355)                         (R )   (C,8!                              )  (T,ERRTYPE )
(PR)(360)                         (R )   (C,TERM APPEARS ON ANOTHER TRANSAC)  (T,MSG2     )
(PR)(365)         (T,MSG2     )   (C0)   (C,TION WITH CODE "                )  (T,MSG2     )
(PR)(370)                         (R )     (CODE                            )  (T,CODEIN   )
(PR)(375)                         (GO)     (SUB EDA4FMTC                    )
(PR)(380)         (T,MSG2     )   (C0)   (T,CODEOUT                         )  (T,MSG2     )
(PR)(385)         (T,MSG2     )   (C0)   (C,"                               )  (T,MSG2     )
(PR)(390)                         (GO)     (SUB EDA4TERR                    )
(PR)(395)                         (GO)     (990                             )
(PR)(400)         (T,KEY      )   (EQ)   (C,C                               )
(PR)(405)     (A) (F,XTRAN    )   (EQ)   (D,8                               )
(PR)(410)                         (NS)     (440                             )
(PR)(415)                         (R )   (C,9!                              )  (T,ERRTYPE )
(PR)(420)                         (R )   (C,CODE NOT FOUND IN CLASSIFICATIO)  (T,MSG2     )
(PR)(425)         (T,MSG2     )   (C0)   (C,N SCHEDULES                     )  (T,MSG2     )
(PR)(430)                         (GO)     (SUB EDA4TERR                    )
(PR)(435)                         (GO)     (990                             )
(PR)(440)         (T,KEY      )   (EQ)   (C,T                               )
(PR)(445)     (A) (F,XTRAN    )   (EQ)   (D,8                               )
(PR)(450)                         (NS)     (530                             )
(PR)(455)                         (R )   (C,10!                             )  (T,ERRTYPE )
(PR)(460)                         (R )   (C,TERM NOT FOUND IN CLASSIFICATIO)  (T,MSG2     )
(PR)(465)         (T,MSG2     )   (C0)   (C,N SCHEDULES                     )  (T,MSG2     )
(PR)(470)                         (GO)     (SUB EDA4TERR                    )
(PR)(475)                         (GO)     (990                             )
(PR)(530)         (T,KEY      )   (EQ)   (C,T                               )
(PR)(535)     (A) (T,MISMTFLG)    (EQ)   (C,1                               )
(PR)(540)                         (NS)     (590                             )
(PR)(545)                         (R )   (C,11!                             )  (T,ERRTYPE )
(PR)(550)                         (R )   (C,CODE "                          )  (T,MSG2     )
(PR)(555)                         (R )   (O,CODE                            )  (T,CODEIN   )
(PR)(560)                         (GO)     (SUB EDA4FMTC                    )
(PR)(565)         (T,MSG2     )   (C0)   (T,CODEOUT                         )  (T,MSG2     )
(PR)(570)         (T,MSG2     )   (C0)   (C," IS ASSOCIATED WITH THIS TERM )  (T,MSG2     )
(PR)(575)         (T,MSG2     )   (C1)   (C,IN THE CLASSIFICATION SCHEDULES)  (T,MSG2     )
(PR)(580)                         (GO)     (SUB EDA4TERR                    )
(PR)(585)                         (GO)     (990                             )
(PR)(590)         (T,CSFLG    )   (EQ)   (C,2                               )
(PR)(595)                         (NS)     (630                             )
(PR)(600)                         (R )   (C,12!                             )  (T,ERRTYPE )
(PR)(605)                         (R )   (C,SPELLING CHANGE TRANSACTION NOT)  (T,MSG2     )
(PR)(610)         (T,MSG2     )   (C1)   (C,PAIRED OR CODE AND OLD SPELLING)  (T,MSG2     )
(PR)(615)         (T,MSG2     )   (C1)   (C,DO NOT MATCH                    )  (T,MSG2     )
(PR)(620)                         (GO)     (SUB EDA4TERR                    )
(PR)(625)                         (GO)     (990                             )
(PR)(630)         (F,XTRAN    )   (EQ)   (D,1                               )
(PR)(635)     (A) (T,CORDLKUP)    (EQ)   (C,M                               )
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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(640)                         (NS)     (675                             )
(PR)(645)                         (R )    (C,13!                            )  (T,ERRTYPE )
(PR)(650)                         (R )    (C,TERM EXISTS IN CLASSIFICATION S)  (T,MSG2    )
(PR)(655)         (T,MSG2    )    (C0)    (C,CHEDULES--MAY NOT BE USED AS A )  (T,MSG2    )
(PR)(660)         (T,MSG2    )    (C1)    (C,LEAD-IN ENTRY                  )  (T,MSG2    )
(PR)(665)                         (GO)     (SUB EDA4TERR                    )
(PR)(670)                         (GO)     (990                             )
(PR)(675)         (F,XTRAN   )    (EQ)    (D,1                              )
(PR)(680)     (A) (T,CORDLKUP)    (EQ)    (C,X                              )
(PR)(685)                         (NS)     (720                             )
(PR)(690)                         (R )    (C,14!                            )  (T,ERRTYPE )
(PR)(695)                         (R )    (C,REFERENCED CONTROLLED VOCABULAR)  (T,MSG2    )
(PR)(700)         (T,MSG2    )    (C0)    (C,Y TERM NOT FOUND IN CLASSIFICAT)  (T,MSG2    )
(PR)(705)         (T,MSG2    )    (C0)    (C,ION SCHEDULES                  )  (T,MSG2    )
(PR)(710)                         (GO)     (SUB EDA4TERR                    )
(PR)(715)                         (GO)     (990                             )
(PR)(720)         (F,XTRAN   )    (EQ)    (D,1                              )
(PR)(725)     (A) (T,CORDLKUP)    (EQ)    (C,L                              )
(PR)(730)                         (NS)     (755                             )
(PR)(735)                         (R )    (C,15!                            )  (T,ERRTYPE )
(PR)(740)                         (R )    (C,INVALID LEAD-IN ENTRY UNIT     )  (T,MSG2    )
(PR)(745)                         (GO)     (SUB EDA4TERR                    )
(PR)(750)                         (GO)     (990                             )
(PR)(755)         (F,XTRAN   )    (EQ)    (D,1                              )
(PR)(760)     (A) (T,CORDLKUP)    (EQ)    (C,C                              )
(PR)(765)                         (NS)     (800                             )
(PR)(770)                         (R )    (C,16!                            )  (T,ERRTYPE )
(PR)(775)                         (R )    (C,LEAD-IN ENTRY ADDED THIS RUN--M)  (T,MSG2    )
(PR)(780)         (T,MSG2    )    (C0)    (C,AY NOT BE MODIFIED IN THE SAME )  (T,MSG2    )
(PR)(785)         (T,MSG2    )    (C1)    (C,RUN                            )  (T,MSG2    )
(PR)(790)                         (GO)     (SUB EDA4TERR                    )
(PR)(795)                         (GO)     (990                             )
(PR)(800)         (F,XTRAN   )    (EQ)    (D,1                              )
(PR)(810)                         (NS)     (830                             )
(PR)(830)         (F,XTRAN   )    (EQ)    (D,8                              )
(PR)(832)                         (NS)     (842                             )
(PR)(834)                         (R )    (C,17!                            )  (T,ERRTYPE )
(PR)(836)                         (R )    (C,RECORD NOT FOUND IN MASTER FILE)  (T,MSG2    )
(PR)(838)                         (GO)     (SUB EDA4TERR                    )
(PR)(840)                         (GO)     (990                             )
(PR)(842)         (F,XTRAN   )    (EQ)    (D,9                              )
(PR)(844)                         (NS)     (856                             )
(PR)(846)                         (R )    (C,18!                            )  (T,ERRTYPE )
(PR)(848)                         (R )    (C,ENTRY ALREADY EXISTS IN MASTER )  (T,MSG2    )
(PR)(850)         (T,MSG2    )    (C1)    (C,FILE                           )  (T,MSG2    )
(PR)(852)                         (GO)     (SUB EDA4TERR                    )
(PR)(854)                         (GO)     (990                             )
(PR)(856)         (F,XTRAN   )    (EQ)    (D,12                             )
(PR)(857) (0) (0) (F,XTRAN   )    (EQ)    (D,1                              )
(PR)(858) (1) (A) (T,OCC-FLG )    (EQ)    (C,1                              )
(PR)(859)                         (NS)     (870                             )
(PR)(860)                         (R )    (C,19!                            )  (T,ERRTYPE )
(PR)(862)                         (R )    (C,REFERENCE NOT FOUND IN MASTER R)  (T,MSG2    )
(PR)(864)         (T,MSG2    )    (C0)    (C,ECORD                          )  (T,MSG2    )
(PR)(866)                         (GO)     (SUB EDA4TERR                    )
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CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(868)                         (GO)      (990                             )
(PR)(870)         (F,XTRAN    )   (EQ)    (D,15                              )
(PR)(872)                         (NS)      (882                             )
(PR)(874)                         (R )    (C,20!                             )  (T,ERRTYPE )
(PR)(876)                         (R )    (C,MAXIMUM RECORD LENGTH EXCEEDED )  (T,MSG2    )
(PR)(878)                         (GO)      (SUB EDA4TERR                    )
(PR)(880)                         (GO)      (990                             )
(PR)(882)         (F,XTRAN    )   (EQ)    (D,17                              )
(PR)(884)                         (NS)      (900                             )
(PR)(886)                         (R )    (C,21!                             )  (T,ERRTYPE )
(PR)(888)                         (R )    (C,COUNT FIELD OVERFLOW            )  (T,MSG2    )
(PR)(890)                         (GO)      (SUB EDA4TERR                    )
(PR)(892)                         (GO)      (990                             )
(PR)(900)         (F,XTRAN    )   (EQ)    (D,1                               )
(PR)(902)     (A) (T,GSC-DFLG)    (EQ)    (C,1                               )
(PR)(904)                         (NS)      (914                             )
(PR)(906)                         (R )    (C,22!                             )  (T,ERRTYPE )
(PR)(908)                         (R )    (C,INVALID GLOSSARY STRUCTURE CODE)  (T,MSG2    )
(PR)(910)                         (GO)      (SUB EDA4TERR                    )
(PR)(912)                         (GO)      (990                             )
(PR)(914)         (F,XTRAN    )   (EQ)    (D,1                               )
(PR)(916)     (A) (T,GSC-DFLG)    (EQ)    (C,2                               )
(PR)(918)                         (NS)      (928                             )
(PR)(920)                         (R )    (C,23!                             )  (T,ERRTYPE )
(PR)(922)                         (R )    (C,INVALID GLOSSARY STRUCTURE CODE)  (T,MSG2    )
(PR)(924)                         (GO)      (SUB EDA4TERR                    )
(PR)(926)                         (GO)      (990                             )
(PR)(928)         (F,XTRAN    )   (EQ)    (D,1                               )
(PR)(930)     (A) (T,GSC-DFLG)    (EQ)    (C,3                               )
(PR)(932)                         (NS)      (942                             )
(PR)(934)                         (R )    (C,24!                             )  (T,ERRTYPE )
(PR)(936)                         (R )    (C,INVALID GLOSSARY STRUCTURE CODE)  (T,MSG2    )
(PR)(938)                         (GO)      (SUB EDA4TERR                    )
(PR)(940)                         (GO)      (990                             )
(PR)(942)         (F,XTRAN    )   (EQ)    (D,1                               )
(PR)(944)     (A) (T,GSC-DFLG)    (EQ)    (C,4                               )
(PR)(946)                         (NS)      (980                             )
(PR)(948)                         (R )    (C,25!                             )  (T,ERRTYPE )
(PR)(950)                         (R )    (C,INVALID GLOSSARY STRUCTURE CODE)  (T,MSG2    )
(PR)(952)                         (GO)      (SUB EDA4TERR                    )
(PR)(954)                         (GO)      (990                             )
(PR)(980)                         (R )    (C,99!                             )  (T,ERRTYPE )
(PR)(982)                         (R )    (C,TRANSACTION REJECTED--UNIDENTIF)  (T,MSG2    )
(PR)(984)         (T,MSG2     )   (CO)    (C,IED ERROR                       )  (T,MSG2    )
(PR)(986)                         (GO)      (SUB EDA4TERR                    )
(PR)(990)                         (R )    (C)                                   (T,OVRFLFLG)
(PR)(992)                         (R )    (C)                                   (T,MISMTFLG)
(PR)(994)                         (R )    (C)                                   (T,BLNKTFLG)
(PR)(996)                         (R )    (C)                                   (T,GSC-DFLG)
(PR)(997)                         (R )    (C)                                   (T,OCC-FLG )
(PR)(998)                         (R )    (D,100                             )  (F,CONDCODE)
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC03  REQUEST - EDA4TERR *
                                        ****************************************
----------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4TERR:                                                    *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  OUTPUTS    *****
COMMENT *****    TRANSACTION ERROR REPORT.                                 *****
COMMENT *****                                                              *****
COMMENT *****    TEMPORARY FIELDS:                                         *****
COMMENT *****       LITERAL  -- CHARACTER STRING CONSTANT USED TO          *****
COMMENT *****                   IDENTIFY OUTPUT STRING                     *****
COMMENT *****       STAR     -- CHARACTER STRING CONSTANT USED TO          *****
COMMENT *****                   HIGHLIGHT BEGINNING AND ENDING OF OUTPUT   *****
COMMENT *****                   STRING                                     *****
COMMENT *****       SPACE    -- DUMMY FIELD USED IN VERTICAL SPACING OF    *****
COMMENT *****                   REPORT                                     *****
COMMENT *****       (TRAN    , MSG1    , ERRTYPE , MSG2    ARE PASSED      *****
COMMENT *****       FROM THE CALLING ROUTINE.)                             *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
----------------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                     SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                  73 TO 80
----------------------------------------------------------------------------------------------------------------
(TF) (LITERAL ) ( 16) (C)                 (TRANSACTION CARD)
(TF) (STAR    ) (  3) (C)                 (***              )
(TF) (SPACE   ) (  1) (C)
----------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TW COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE......... C EMP         SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT M FLD         73 TO 80
 UP     P              G             LT TYP POS         NUM      ML TD REC           BUF      B CTL
----------------------------------------------------------------------------------------------------------------
(E1)                         (56)       (X)
----------------------------------------------------------------------------------------------------------------
          SP  Q                E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P             PARTIAL
CARD SEQ  BF  L  FIELD         N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C   PICTURE   STRT NO   SEQUENCE
TYPE NO.  COL F  NAME          D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T    EDIT     CHR CHR   73 TO 80
----------------------------------------------------------------------------------------------------------------
(R1)(080)( 0)(T,LITERAL )
(R1)(090)( 0)(T,STAR    )
(R1)(100)( 0)(T,TRAN    )          (1)
(R1)(110)( 0)(T,STAR    )(Y)
(R1)(115)    (T,SPACE   )(Y)
(R1)(120)( 9)(T,MSG1    )
(R1)(130)( 0)(T,ERRTYPE )
(R1)(140)( 1)(T,MSG2    )(Y)
(R1)(145)    (T,SPACE   )(Y)
(R1)(146)    (T,SPACE   )
```

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-----------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                            SEQUENCE
TYPE  NO.                                        TEXT                                                73 TO 80
-----------------------------------------------------------------------------------------------------------------
(T1) (150)                      (ERROR TRANSACTIONS#                                     )
(T1) (160)                      ((MAKE CORRECTIONS AND RESUBMIT RUN)#                    )
(T1)(170) (#)
(T1)(180) (#)
(T1)(190) (#)
```

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                                                        ****************************************
                                                        *       DUMP OF CATALOGED REQUESTS     *
                                                        * GROUP - EDA4RT01  REQUEST - EDA4TH-P *
                                                        ****************************************
------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** THE REPORT GENERATOR FOR THE THESAURUS IS EXECUTED BY TWO    *****
COMMENT ***** MARK IV STEPS WITH AN INTERVENING SORT.  THE FIRST STEP      *****
COMMENT ***** ACCESSES THE THESAURUS MASTER FILE AND CREATES A SUBFILE OF *****
COMMENT ***** REPORT LINES.  AFTER THE SORT STEP HAS ORDERED THE REPORT    *****
COMMENT ***** LINES. THE SECOND MARK IV STEP BLANKS OUT SECONDARY          *****
COMMENT ***** OCCURRENCES OF THE RELATIONSHIP TYPF (SIMILAR TO A LEVEL 1   *****
COMMENT ***** CONTROL BREAK) TO PRODUCE A MORE READABLE REPORT.            *****
COMMENT *****                                                              *****
COMMENT ***** STEP ONE CONTAINS EIGHT REQUESTS:                            *****
COMMENT *****    EDA4TH-P PERFORMS THE INITIAL SET-UP AND CREATES REPORT   *****
COMMENT *****             LINES FOR CONTROLLED VOCABULARY TERMS, SCOPE     *****
COMMENT *****             NOTES AND USED FOR REFERENCES                    *****
COMMENT *****    EDA4THP2 CREATES REPORT LINES FOR RELATED TERM            *****
COMMENT *****             REFERENCES                                       *****
COMMENT *****    EDA4THP3 CREATES REPORT LINES FOR BROADER TERM            *****
COMMENT *****             REFERENCES                                       *****
COMMENT *****    EDA4THP4 CREATES REPORT LINES FOR NARROWER TERM           *****
COMMENT *****             REFERENCES                                       *****
COMMENT *****    EDA4THP5 SERVES TO BYPASS EDA4THP6 WHICH IS EXECUTED      *****
COMMENT *****             ONLY FOR LEAD-IN ENTRIES                         *****
COMMENT *****    EDA4THP6 CREATES REPORT LINES FOR LEAD-IN ENTRIES         *****
COMMENT *****    EDA4TH-R OUTPUTS THE REPORT SUBFILE                       *****
COMMENT *****    EDA4FMTC FORMATS THE CLASSIFICATION CODE FOR PRINTING     *****
COMMENT *****                                                              *****
COMMENT ***** THE SECOND MARK IV STEP CONTAINS ONE REQUEST:                *****
COMMENT *****    EDA4TPNT BLANKS OUT SECONDARY OCCURRENCES OF THE          *****
COMMENT *****             RELATIONSHIP TYPE AND PRINTS THE REPORT          *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    SRT-TERM -- NON-PRINTING FIELD USED TO SORT REPORT        *****
COMMENT *****    REL-TYPE -- NON-PRINTING FIELD USED TO SORT REPORT AND    *****
COMMENT *****                SUPPRESS PRINTING OF SECONDARY RELATIONSHIP   *****
COMMENT *****                DESCRIPTORS  (NOTE: THE FIRST CHARACTER IS    *****
COMMENT *****                USED TO SEQUENCE THE REFERENCES IN PREFERRED *****
COMMENT *****                ORDER.  THE SECOND CHARACTER PROVIDES THE     *****
COMMENT *****                ABILITY TO CONTROL BREAK TO ADD BLANK LINES   *****
COMMENT *****                BETWEEN RELATIONSHIP GROUPS.  THE LATTER      *****
COMMENT *****                FEATURE HAS BEEN SUPPRESSED TO PROVIDE A      *****
COMMENT *****                MORE READABLE REPORT.)                        *****
COMMENT *****    LINE-BLD -- WORK FIELD USED TO BUILD REPORT LINES         *****
COMMENT *****    CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING     *****
COMMENT *****                ROUTINE                                       *****
COMMENT *****    CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE       *****
COMMENT *****    NO-LEREF -- WORK FIELD USED TO DETERMINE WHICH            *****
COMMENT *****                RELATIONSHIP DESCRIPTOR TO PRINT FOR "USE     *****
COMMENT *****                AND" OR "SEE" REFERENCES                      *****
COMMENT *****    TEMP-SCN -- WORK FIELD USED IN MANUAL WRAP-AROUND OF      *****
COMMENT *****                LONG SCOPE NOTES                              *****
COMMENT *****    C165     -- CONSTANT USED IN MANUAL WRAP-AROUND OF LONG   *****
COMMENT *****                  SCOPE NOTES                              *****
COMMENT *****                                                           *****
COMMENT ***** EDA4TH-P:                                                 *****
COMMENT *****       LINES 120-140 INITIALIZE FIELDS                     *****
COMMENT *****       LINES 150-160 TEST FOR CONTROLLED VOCABULARY TERMS  *****
COMMENT *****                     AND BRANCH TO EDA4THP6 FOR LEAD-IN    *****
COMMENT *****                     ENTRIES                               *****
COMMENT *****       LINES 170-210 FORMAT CODE AND OUTPUT REPORT LINE    *****
COMMENT *****                     CONTAINING CONTROLLED VOCABULARY TERM *****
COMMENT *****       LINES 220-258 TEST FOR BLANK OR ONE LINE SCOPE NOTE, *****
COMMENT *****                     FORMAT LINE AND BRANCH TO OUTPUT      *****
COMMENT *****       LINES 260-268 FOR LONG SCOPE NOTES FIND FIRST WRAP- *****
COMMENT *****                     AROUND POINT AND OUTPUT FIRST LINE    *****
COMMENT *****       LINES 270-280 INITIALIZE SECOND SCOPE NOTE LINE AND *****
COMMENT *****                     BRANCH TO OUTPUT IF FURTHER WRAP-AROUND *****
COMMENT *****                     IS UNNECESSARY                        *****
COMMENT *****       LINES 282-288 FIND SECOND WRAP-AROUND POINT AND     *****
COMMENT *****                     OUTPUT SECOND LINE                    *****
COMMENT *****       LINES 290-292 INITIALIZE THIRD SCOPE NOTE LINE      *****
COMMENT *****       LINES 300-400 TEST TO MAKE SURE PARTIAL FIELD DOES  *****
COMMENT *****                     NOT EXCEED SCOPE NOTE LENGTH AND LAST *****
COMMENT *****                     TWO CHARACTERS ARE NOT LOST           *****
COMMENT *****       LINES 410-420 IF FURTHER WRAP-AROUND IS UNNECESSARY, *****
COMMENT *****                     FILL REPORT LINE AND BRANCH TO OUTPUT *****
COMMENT *****       LINES 430-510 FIND THIRD WRAP-AROUND POINT AND OUTPUT *****
COMMENT *****                     THIRD AND FOURTH SCOPE NOTE LINES     *****
COMMENT *****       LINES 520-560 SET UP REPORT LINES AND OUTPUT "USED  *****
COMMENT *****                     FOR" REFERENCES                       *****
COMMENT *****                                                           *****
COMMENT ***** ***************************************************** *****
-----------------------------------------------------------------------------------------------------------
CARD  FIELD     FIELD FLD DEC OUTPT EDIT/     INITIAL          LINE 1 OF        LINE 2 OF              SEQUENCE
TYPE  NAME      LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING           73 TO 80
-----------------------------------------------------------------------------------------------------------
(TF) (SRT-TERM) ( 40) (C)
(TF) (REL-TYPE) (  2) (C)
(TF) (LINE-BLD) ( 65) (C)
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
(TF) (NO-LEREF) (  1) (F)
(TF) (TEMP-SCN) ( 57) (C)
(TF) (C165    ) (  2) (F)              (165               )
-----------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------------
(PR)(120)                         (R )    (TERM                          )  (T,SRT-TERM)
(PR)(130)                         (R )   (C)                                (T,REL-TYPE)
(PR)(140)                         (R )    (TERM                          )  (T,LINE-BLD)
(PR)(150)           (CODE     )   (CV)   (P,IIIIIIIIIIIIIIIIIII           )
(PR)(160)                         (NS)    (REQUEST EDA4THP6              )
(PR)(170)                         (R )    (CODE                          )  (T,CODEIN  )
(PR)(180)                         (GO)    (SUB EDA4FMTC                  )
(PR)(190)                         (R )   (T,CODEOUT                      )  (T,LINE-BLD)  (42) (24) (C)
(PR)(210)                         (GO)    (SUB EDA4TH-R                  )
(PR)(220)           (SCOPE-NT)    (NE)   (C)
(PR)(230)                         (NS)    (520                           )
(PR)(240)                         (R )   (C,1A                           )  (T,REL-TYPE)
(PR)(250)                         (R )   (C,   SN:                       )  (T,LINE-BLD)
```

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----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR     73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(252)         (SCOPE-NT)  (EQ)  (C)                                           (58) ( 4) (A)
(PR)(254)                     (NS)    (260                        )
(PR)(256)                     (R )    (SCOPE-NT                   ) (T,LINE-BLD)  ( 9) (57) (C)
(PR)(258)                     (GO)    (510                        )
(PR)(260)         (SCOPE-NT)  (SR)  (P,B                          )               ( 1) (57) (A)
(PR)(262)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  ( 1) (LN) (B)
(PR)(264)                     (R )  (T,TEMP-SCN                   ) (T,LINE-BLD)  ( 9) (57) (C)
(PR)(268)                     (GO)    (SUB EDA4TH-R               )
(PR)(270)                     (R )  (C,2A                         ) (T,REL-TYPE)
(PR)(271)                     (R )  (C)                             (T,LINE-BLD)
(PR)(272)       (F,RSTART  )  (+ )  (D,57                         ) (F,LSTART  )
(PR)(274)         (SCOPE-NT)  (EQ)  (C)                                           (LS) ( 4) (A)
(PR)(276)                     (NS)    (282                        )
(PR)(278)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  (RS) (57) (B)
(PR)(280)                     (GO)    (500                        )
(PR)(282)         (SCOPE-NT)  (SR)  (P,B                          )               (RS) (57) (A)
(PR)(284)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  (LS) (LN) (B)
(PR)(286)                     (R )  (T,TEMP-SCN                   ) (T,LINE-BLD)  ( 9) (57) (C)
(PR)(288)                     (GO)    (SUB EDA4TH-R               )
(PR)(290)                     (R )  (C,3A                         ) (T,REL-TYPE)
(PR)(292)       (F,RSTART  )  (+ )  (D,57                         ) (F,LSTART  )
(PR)(300)       (F,LSTART  )  (LE)  (D,165                        )
(PR)(310)                     (NS)    (480                        )
(PR)(320)       (F,LSTART  )  (EQ)  (D,165                        )
(PR)(330)                     (NS)    (390                        )
(PR)(340)         (SCOPE-NT)  (EQ)  (C)                                           (LS) ( 1) (A)
(PR)(350)                     (NS)    (430                        )
(PR)(360)                     (GO)    (410                        )
(PR)(390)         (SCOPE-NT)  (EQ)  (C)                                           (LS) ( 2) (A)
(PR)(400)                     (NS)    (430                        )
(PR)(410)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  (RS) (57) (B)
(PR)(420)                     (GO)    (500                        )
(PR)(430)         (SCOPE-NT)  (SR)  (P,B                          )               (RS) (57) (A)
(PR)(440)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  (LS) (LN) (B)
(PR)(450)                     (R )  (T,TEMP-SCN                   ) (T,LINE-BLD)  ( 9) (57) (C)
(PR)(460)                     (GO)    (SUB EDA4TH-R               )
(PR)(470)                     (R )  (C,4A                         ) (T,REL-TYPE)
(PR)(480)       (T,C165    )  (- )  (F,MSTART                     ) (F,RNUMBER )
(PR)(490)                     (R )    (SCOPE-NT                   ) (T,TEMP-SCN)  (RS) (RN) (B)
(PR)(500)                     (R )  (T,TEMP-SCN                   ) (T,LINE-BLD)  ( 9) (57) (C)
(PR)(510)                     (GO)    (SUB EDA4TH-R               )
(PR)(520)         (UF-REF  )  (EQ)    (UF-REF                     )
(PR)(530)                     (R )  (C,5B                         ) (T,REL-TYPE)
(PR)(540)                     (R )  (C,    UF                     ) (T,LINE-BLD)
(PR)(550)                     (R )    (UF-REF                     ) (T,LINE-BLD)  ( 9) (40) (C)
(PR)(560)                     (GO)    (SUB EDA4TH-R               )
```

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                                                 ****************************************
                                                 *       DUMP OF CATALOGED REQUESTS     *
                                                 * GROUP - EDA4HT01  REQUEST - EDA4TH-R *
                                                 ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ    SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP    NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (S)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4TH-R:                                                    *****
COMMENT *****    SUBROUTINE REQUEST PERFORMED ONLY WHEN CALLED.  OUTPUTS   *****
COMMENT *****    RECORDS TO THE THESAURUS REPORT SUBFILE.                  *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------------
 CT SUM V  B  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH ........SUBFILE......... C EMP               SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME     BLK/ FMT M FLD               73 TO 80
 DP     P              G             LT TYP POS         NUM      HL TD REC            BUF      B CTL
-------------------------------------------------------------------------------------------------------------------------
(E1)                                                                (NR)    (EDA4TRL )(  60)(F)
-------------------------------------------------------------------------------------------------------------------------
          SP  Q               E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                PARTIAL
CARD SEQ  BF  L  FIELD        N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD  RA-  C      PICTURE   STRT NO      SEQUENCE
TYPE NO.  COL F  NAME         D  K  Q  S  L  B   T  M  T  X  N  G C F  NAME   TIO  T       EDIT     CHR CHR      73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(R1)(110)    (T,SRT-TERM)
(R1)(120)    (T,REL-TYPE)
(R1)(130)    (T,LINE-BLD)
```

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                                           ****************************************
                                           *      DUMP OF CATALOGED REQUESTS      *
                                           * GROUP - EDA4UCIS  REQUEST - EDA4THCL *
                                           ****************************************
------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                       MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID               ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ******************************************************** *****
COMMENT ***** EDA4THCL:                                                *****
COMMENT *****    LINE  020     TESTS FOR LEAD-IN ENTRY RECORD          *****
COMMENT *****    LINES 024-026 INITIALIZE REPORT FIELDS                *****
COMMENT *****    LINES 040-080 SET UP MAIN ENTRY REPORT FIELDS FOR     *****
COMMENT *****                  DELETION                                *****
COMMENT *****    LINES 090-130 SET UP MAIN ENTRY REPORT FIELDS FOR CHANGE *****
COMMENT *****    LINE  160     CALLS OUTPUT ROUTINE                    *****
COMMENT *****    LINES 170-400 OUTPUT REPORT LINES FOR REFERENCES      *****
COMMENT *****                                                          *****
COMMENT ***** ******************************************************** *****
------------------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                           SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING                       73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(TF)  (NO-LEREF) (  1) (F)
------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............   ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR        73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(PR)(020)              (LEREFCNT)      (GT)    (D,0                                  )
(PR)(024)                              (R )     (TERM                                )   (T,SRT-TERM)
(PR)(026)                              (R )    (C)                                       (T,REL-TYPE)
(PR)(040)             (T,DELETSEG)     (EQ)    (C,1                                  )
(PR)(050)                              (NS)     (090                                 )
(PR)(060)                              (R )    (C,DELETED                            )   (T,CHG-TYPE)
(PR)(070)                              (R )     (TERM                                )   (T,LINE-BLD)
(PR)(080)                              (GO)     (160                                 )
(PR)(090)             (T,CHANGSEG)     (EQ)    (C,1                                  )
(PR)(100)                              (R )    (C,CHANGED                            )   (T,CHG-TYPE)
(PR)(110)                              (R )    (C,(                                  )   (T,LINE-BLD)
(PR)(120)             (T,LINE-BLD)     (CO)     (TERM                                )   (T,LINE-BLD)
(PR)(130)             (T,LINE-BLD)     (CO)    (C,)                                  )   (T,LINE-BLD)
(PR)(160)                              (GO)     (SUB EDA4THCR                        )
(PR)(170)                              (R )     (LE-REF                              )   (T,LINE-BLD)  ( 9) (40) (C)
(PR)(180)             (T,NO-LEREF)     (EQ)    (D,0                                  )
(PR)(190)  (0)  (A)    (LEREFTYP)      (EQ)    (C,U                                  )
(PR)(200)  (1)         (LEREFTYP)      (EQ)    (C,A                                  )
(PR)(210)                              (NS)     (250                                 )
(PR)(220)                              (R )    (C,1                                  )   (T,REL-TYPE)
(PR)(230)                              (R )    (C,   USE                             )   (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(240)                              (GO)     (390                                 )
(PR)(250)             (T,NO-LEREF)     (EQ)    (D,0                                  )
(PR)(260)       (A)    (LEREFTYP)      (EQ)    (C,S                                  )
(PR)(270)                              (NS)     (310                                 )
(PR)(280)                              (R )    (C,1                                  )   (T,REL-TYPE)
(PR)(290)                              (R )    (C,   SEE                             )   (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(300)                              (GO)     (390                                 )
(PR)(310)             (T,NO-LEREF)     (GT)    (D,0                                  )
(PR)(320)       (A)    (LEREFTYP)      (EQ)    (C,A                                  )
```

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---------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR        73 TO 80
---------------------------------------------------------------------------------------------------------------------------
(PR)(330)                         (NS)     (370                            )
(PR)(340)                         (R )   (C,2                              )  (T,REL-TYPE)
(PR)(350)                         (R )   (C,    AND                        )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(360)                         (GO)     (390                            )
(PR)(370)                         (R )   (C,2                              )  (T,REL-TYPE)
(PR)(380)                         (R )   (C)                                  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(390)         (T,NO-LEREF)    (+ )   (D,1                              )  (T,NO-LEREF)
(PR)(400)                         (GO)     (SUB EDA4THCR                   )
```

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                                   ****************************************
                                   *       DUMP OF CATALOGED REQUESTS     *
                                   * GROUP - EDA4UCIS  REQUEST - EDA4THCM *
                                   ****************************************

------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID         ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(EH)(DATE  )
COMMENT ***** ******************************************************** *****
COMMENT *****                                                          *****
COMMENT ***** EDA4THCM:                                                *****
COMMENT *****    EXECUTED AFTER APPLICATION OF ALL TRANSACTIONS TO THE  *****
COMMENT *****    MASTER FILE RECORD.  USED BOTH FOR THESAURUS UPDATE AND *****
COMMENT *****    THESAURUS RECONCILIATION DURING CLASSIFICATION SCHEDULES *****
COMMENT *****    UPDATE.                                               *****
COMMENT *****       LINES 130-135 TEST FOR CONTROLLED VOCABULARY RECORD  *****
COMMENT *****       LINES 140-180 BUILD CHANGE REPORT OUTPUT LINE       *****
COMMENT *****       LINES 190-220 OUTPUT THE MAIN ENTRY REPORT LINE FOR  *****
COMMENT *****                     ANY RECORD WITH DELETED REFERENCES    *****
COMMENT *****       LINES 230-260 OUTPUT THE MAIN ENTRY REPORT LINE FOR  *****
COMMENT *****                     ANY RECORD WITH CHANGED REFERENCES    *****
COMMENT *****                     (ONLY APPLICABLE TO RECONCILIATION)   *****
COMMENT *****       LINES 270-310 RESET FLAGS ON ALL RECORDS            *****
COMMENT *****                                                          *****
COMMENT ***** ******************************************************** *****
------------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL          LINE 1 OF          LINE 2 OF                    SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH         VALUE        COLUMN HEADING    COLUMN HEADING                   73 TO 80
------------------------------------------------------------------------------------------------------------------------
(TF) (CHANGSEG) (  1) (C)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(130)             (LEREFCNT)   (EQ)   (D,0                               )
(PR)(135)                          (NS)     (270                             )
(PR)(140)                          (R )     (TERM                            )  (T,SRT-TERM)
(PR)(150)                          (R )   (C)                                   (T,REL-TYPE)
(PR)(160)                          (R )   (C,(                               )  (T,LINE-BLD)
(PR)(170)           (T,LINE-BLD)   (CO)     (TERM                            )  (T,LINE-BLD)
(PR)(180)           (T,LINE-BLD)   (CO)   (C,)                               )  (T,LINE-BLD)
(PR)(190)           (T,DELETSEG)   (EQ)   (C,1                               )
(PR)(200)                          (NS)     (230                             )
(PR)(210)                          (R )   (C,DELETED                         )  (T,CHG-TYPE)
(PR)(220)                          (GO)     (SUB EDA4THCR                    )
(PR)(230)           (T,CHANGSEG)   (EQ)   (C,1                               )
(PR)(240)                          (NS)     (270                             )
(PR)(250)                          (R )   (C,CHANGED                         )  (T,CHG-TYPE)
(PR)(260)                          (GO)     (SUB EDA4THCR                    )
(PR)(270)                          (R )   (C)                                   (T,CHANGSEG)
(PR)(280)                          (R )   (D,0                               )  (T,NO-LEREF)
(PR)(290)                          (R )   (C)                                   (T,LEREFFLG)
(PR)(300)                          (R )   (C)                                   (T,DEL-MFLG)
(PR)(310)                          (R )   (C)                                   (T,DELETSEG)
```

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                                    ****************************************
                                    *      DUMP OF CATALOGED REQUESTS      *
                                    * GROUP - EDA4UC15  REQUEST - EDA4THCP *
                                    ****************************************

--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID            ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (2)
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** THE STEP IN WHICH THE THESAURUS FILE IS RECONCILED TO       *****
COMMENT ***** CHANGES IN THE CLASSIFICATION SCHEDULES CREATES A NEW       *****
COMMENT ***** GENERATION OF THE THESAURUS FILE, PRODUCES A SUBFILE OF     *****
COMMENT ***** TABLE ENTRIES FOR DELETIONS AND CODE CHANGES, AND GENERATES *****
COMMENT ***** A REPORT OF ALL CHANGES MADE.  A TABLE LOOKUP IS PERFORMED  *****
COMMENT ***** TO RECONCILE REFERENCE TERMS TO CHANGES IN THE CLASSIFICA-  *****
COMMENT ***** TIONS SCHEDULES ACCESSING THE MASTER CLASSIFICATION         *****
COMMENT ***** SCHEDULES FILE THROUGH INDEXED COORDINATION TO OBTAIN       *****
COMMENT ***** CHANGED SPELLINGS.  THE TABLE GENERATED BY THIS STEP IS     *****
COMMENT ***** USED BY THE GLOSSARY RECONCILIATION STEP TO UNCLASSIFY ALL  *****
COMMENT ***** SOURCE TERMS FORMERLY ASSOCIATED WITH A DELETED OR MODIFIED *****
COMMENT ***** CLASSIFICATION CODE.  TWO OF THE TEN REQUESTS ARE EXECUTED  *****
COMMENT ***** PRIOR TO TRANSACTION UPDATE IN ORDER TO ACCESS DELETED      *****
COMMENT ***** RECORDS.                                                    *****
COMMENT *****                                                             *****
COMMENT ***** EDA4THCP GENERATES CHANGE REPORT LINES FOR CHANGES TO       *****
COMMENT *****          THESAURUS CONTROLLED VOCABULARY ENTRIES            *****
COMMENT ***** EDA4ADT2 PERFORMS RECONCILIATION AND GENERATES REPORT LINES *****
COMMENT *****          FOR CHANGES TO RELATED TERM REFERENCES             *****
COMMENT ***** EDA4THC3 PERFORMS RECONCILIATION AND GENERATES REPORT LINES *****
COMMENT *****          FOR CHANGES TO BROADER TERM REFERENCES             *****
COMMENT ***** EDA4THC4 PERFORMS RECONCILIATION AND GENERATES REPORT LINES *****
COMMENT *****          FOR CHANGES TO NARROWER TERM REFERENCES            *****
COMMENT ***** EDA4THC5 PERFORMS RECONCILIATION FOR LEAD-IN ENTRY          *****
COMMENT *****          REFERENCES                                         *****
COMMENT ***** EDA4THCL GENERATES REPORT LINES FOR CHANGES TO LEAD-IN      *****
COMMENT *****          ENTRY REFERENCES                                   *****
COMMENT ***** EDA4THCM GENERATES MAIN ENTRY REPORT LINES FOR REFERENCE    *****
COMMENT *****          CHANGES                                            *****
COMMENT ***** EDA4FMTC FORMATS THE CLASSIFICATION CODE FOR PRINTING       *****
COMMENT ***** EDA4THCR OUTPUTS REPORT LINES FOR THESAURUS CHANGE REPORT   *****
COMMENT *****                                                             *****
COMMENT ***** TEMPORARY FIELDS:                                           *****
COMMENT *****    CHG-TYPE -- REPORT FIELD USED TO DESCRIBE TYPE OF UPDATE *****
COMMENT *****    SRT-TERM -- NON-PRINTING FIELD USED TO SORT REPORT       *****
COMMENT *****    REL-TYPE -- NON-PRINTING FIELD USED TO SORT REPORT       *****
COMMENT *****    LINE-BLD -- WORK FIELD USED TO BUILD REPORT LINES        *****
COMMENT *****    CODEIN   -- WORK FIELD USED TO PASS CODE TO FORMATING    *****
COMMENT *****                ROUTINE                                      *****
COMMENT *****    CODEOUT  -- WORK FIELD USED TO RETURN FORMATED CODE      *****
COMMENT *****    CHANGSEG -- FLAG USED TO IDENTIFY TERMS WITH REFERENCE   *****
COMMENT *****                CHANGES                                      *****
COMMENT *****    DELETSEG -- FLAG USED TO IDENTIFY TERMS WITH REFERENCE   *****
COMMENT *****                DELETIONS                                    *****
COMMENT *****    CSCHANGE -- RESULT FIELD FOR TABLE LOOK UP, ALSO USED AS *****
COMMENT *****                MATCH FIELD FOR INDEXED COORDINATION         *****
COMMENT *****                                                             *****
COMMENT ***** EDA4THCP:                                                   *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****     THE MASTER FILE.                                     *****
COMMENT *****        LINES 110-210 BUILD THESAURUS CHANGE REPORT LINE FOR  *****
COMMENT *****                      NEW CONTROLLED VOCABULARY TERM          *****
COMMENT *****        LINES 220-320 BUILD THESAURUS CHANGE REPORT LINE FOR  *****
COMMENT *****                      DELETED CONTROLLED VOCABULARY TERM      *****
COMMENT *****        LINES 330-490 BUILD THESAURUS CHANGE REPORT LINE FOR  *****
COMMENT *****                      SPELLING CHANGE OF CONTROLLED           *****
COMMENT *****                      VOCABULARY TERM                         *****
COMMENT *****        LINES 500-610 BUILD THESAURUS CHANGE REPORT LINE FOR  *****
COMMENT *****                      OLD CODE PORTION OF CODE CHANGE         *****
COMMENT *****        LINES 620-710 BUILD THESAURUS CHANGE REPORT LINE FOR  *****
COMMENT *****                      NEW CODE PORTION OF CODE CHANGE  (NOTE: *****
COMMENT *****                      TWO LINES ARE USED TO PRINT CODE        *****
COMMENT *****                      CHANGES BECAUSE THE CODE IS THE MASTER  *****
COMMENT *****                      FILE KEY NECESSITATING THE USE OF TWO   *****
COMMENT *****                      TRANSACTIONS TO MODIFY THE FILE         *****
COMMENT *****                      SEQUENTIALLY.)                          *****
COMMENT *****                                                              *****
COMMENT ***** ******************************************************** *****
-----------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF              SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH       VALUE         COLUMN HEADING   COLUMN HEADING           73 TO 80
-----------------------------------------------------------------------------------------------------
(TF) (CHG-TYPE) (  7) (C)
(TF) (SRT-TERM) ( 40) (C)
(TF) (REL-TYPE) (  1) (C)
(TF) (LINE-BLD) (128) (C)
(TF) (CODEIN  ) ( 30) (C)
(TF) (CODEOUT ) ( 36) (C)
-----------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------
(PR)(110)          (X,TRAN-ID )   (EQ)   (C,CA                              )
(PR)(120)                         (NS)     (220                             )
(PR)(130)                         (R )   (C,ADDED                           )  (T,CHG-TYPE)
(PR)(140)                         (R )   (X,TERM                            )  (T,SRT-TERM)
(PR)(150)                         (R )   (C)                                   (T,REL-TYPE)
(PR)(160)                         (R )   (X,TERM                            )  (T,LINE-BLD)
(PR)(170)                         (R )   (X,CODE                            )  (T,CODEIN  )
(PR)(180)                         (GO)     (SUB EDA4FMTC                    )
(PR)(190)                         (R )   (T,CODEOUT                         )  (T,LINE-BLD)  (42) (36) (C)
(PR)(210)                         (GO)     (SUB EDA4THCR                    )
(PR)(220)          (X,TRAN-ID )   (EQ)   (C,CD                              )
(PR)(230)                         (NS)     (330                             )
(PR)(240)                         (R )   (C,DELETED                         )  (T,CHG-TYPE)
(PR)(250)                         (R )   (X,TERM                            )  (T,SRT-TERM)
(PR)(260)                         (R )   (C)                                   (T,REL-TYPE)
(PR)(270)                         (R )   (X,TERM                            )  (T,LINE-BLD)
(PR)(280)                         (R )   (X,CODE                            )  (T,CODEIN  )
(PR)(290)                         (GO)     (SUB EDA4FMTC                    )
(PR)(300)                         (R )   (T,CODEOUT                         )  (T,LINE-BLD)  (42) (36) (C)
(PR)(320)                         (GO)     (SUB EDA4THCR                    )
(PR)(330)          (X,TRAN-ID )   (EQ)   (C,CS                              )
(PR)(340)                         (NS)     (500                             )
(PR)(350)                         (R )   (C,CHANGED                         )  (T,CHG-TYPE)
(PR)(360)                         (R )   (X,TERM                            )  (T,SRT-TERM)
(PR)(370)                         (R )   (C)                                   (T,REL-TYPE)
(PR)(380)                         (R )   (X,TERM                            )  (T,LINE-BLD)
```

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--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER  .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(390)                         (R )  (X,CODE                            )  (T,CODEIN  )
(PR)(400)                         (GO)    (SUB EDA4FMTC                    )
(PR)(410)                         (R )  (T,CODEOUT                         )  (T,LINE-BLD)  (42) (36) (C)
(PR)(420)         (T,LINE-BLD)    (C2)  (C,(FROM:                          )  (T,LINE-BLD)
(PR)(430)         (T,LINE-BLD)    (C2)  (O,TERM                            )  (T,LINE-BLD)
(PR)(440)         (T,LINE-BLD)    (C0)  (C,)                               )  (T,LINE-BLD)
(PR)(490)                         (GO)    (SUB EDA4THCR                    )
(PR)(500)         (X,TRAN-ID )    (EQ)  (C,DD                              )
(PR)(510)                         (NS)    (620                             )
(PR)(520)                         (R )  (C,CHANGED                         )  (T,CHG-TYPE)
(PR)(530)                         (R )  (O,TERM                            )  (T,SRT-TERM)
(PR)(540)                         (R )  (C,0                               )  (T,REL-TYPE)
(PR)(550)                         (R )  (C,    (OLD CODE:                  )  (T,LINE-BLD)
(PR)(560)                         (R )  (X,CODE                            )  (T,CODEIN  )
(PR)(570)                         (GO)    (SUB EDA4FMTC                    )
(PR)(580)                         (R )  (T,CODEOUT                         )  (T,LINE-BLD)  (16) (36) (C)
(PR)(600)         (T,LINE-BLD)    (C0)  (C,)                               )  (T,LINE-BLD)
(PR)(610)                         (GO)    (SUB EDA4THCR                    )
(PR)(620)         (X,TRAN-ID )    (EQ)  (C,AA                              )
(PR)(630)                         (R )  (C,CHANGED                         )  (T,CHG-TYPE)
(PR)(640)                         (R )  (X,TERM                            )  (T,SRT-TERM)
(PR)(650)                         (R )  (C)                                   (T,REL-TYPE)
(PR)(660)                         (R )  (X,TERM                            )  (T,LINE-BLD)
(PR)(670)                         (R )  (X,CODE                            )  (T,CODEIN  )
(PR)(680)                         (GO)    (SUB EDA4FMTC                    )
(PR)(690)                         (R )  (T,CODEOUT                         )  (T,LINE-BLD)  (42) (36) (C)
(PR)(710)                         (GO)    (SUB EDA4THCR                    )
```

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                                         ****************************************
                                         *      DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4UC15  REQUEST - EDA4THCR *
                                         ****************************************
--------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                        (S)
COMMENT ***** ************************************************************* *****
COMMENT *****                                                               *****
COMMENT ***** EDA4THCR:                                                     *****
COMMENT *****    SUBROUTINE REQUEST EXECUTED ONLY WHEN CALLED.  OUTPUTS     *****
COMMENT *****    THESAURUS CHANGE REPORT LINES.  THE NON-PRINTING SORT      *****
COMMENT *****    FIELDS ARE USED TO SEQUENCE THE REPORT ALPHABETICALLY BY   *****
COMMENT *****    TERM AND ALPHABETICALLY BY REFERENCE WITHIN REFERENCE      *****
COMMENT *****    TYPE.                                                      *****
COMMENT *****                                                               *****
COMMENT ***** ************************************************************* *****
--------------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP          SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD          73 TO 80
 DP     P              G             LT TYP POS         NUM     HL TD REC            BUF     B CTL
--------------------------------------------------------------------------------------------------------------------------
(E1)                         (56)        (X)
--------------------------------------------------------------------------------------------------------------------------
          SP  Q            E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT       P                  PARTIAL
CARD SEQ  BF  L  FIELD     N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C      PICTURE     STRT NO       SEQUENCE
TYPE NO.  COL F  NAME      D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T       EDIT       CHR CHR       73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(R1)(110)( 0)(T.CHG-TYPE)       (1)   (1)(S)
(R1)(120)    (T.SRT-TERM)    (Y)(2)
(R1)(130)    (T.REL-TYPE)    (Y)(3)
(R1)(140)    (T.LINE-BLD)    (Y)(4)                                                           ( 9)(40)
(R1)(150)( 4)(T.LINE-BLD)
--------------------------------------------------------------------------------------------------------------------------
CARD  SEQ                                                                                                        SEQUENCE
TYPE  NO.                                                   TEXT                                                 73 TO 80
--------------------------------------------------------------------------------------------------------------------------
(T1) (160)                    (CHANGES TO THESAURUS#                                        )
(T1) (170)                    (DURING THIS RUN#                                             )
(T1)(180) (#)
```

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                                   *****************************************
                                   *      DUMP OF CATALOGED REQUESTS       *
                                   * GROUP - EDA4UT06  REQUEST - EDA4TMCT *
                                   *****************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL  SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID            ITEMS CTL  RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(EN)(DATE  )                                                                     (2)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4TMCT:                                                    *****
COMMENT *****    EXECUTED AFTER ALIGNMENT OF EACH TRANSACTION RECORD WITH *****
COMMENT *****    THE MASTER FILE.                                          *****
COMMENT *****       LINE  100     INITIALIZES SORT FIELD                   *****
COMMENT *****       LINES 105-130 SET FLAG FOR SCOPE NOTE CHANGE (REPORT  *****
COMMENT *****                     LINES ARE OUTPUT AFTER ALL CHANGES HAVE *****
COMMENT *****                     BEEN MADE.  SEE EDA4TCHG.)               *****
COMMENT *****       LINES 135-145 ROUTE PROCESSING OF DELETES AND          *****
COMMENT *****                     LEAD-IN ENTRY CHANGES                    *****
COMMENT *****       LINES 150-160 INITIALIZE REPORT FIELDS FOR ADDED       *****
COMMENT *****                     REFERENCES                               *****
COMMENT *****       LINES 165-270 CONTINUE REPORT LINE CREATION FOR        *****
COMMENT *****                     CONTROLLED VOCABULARY RECORD REFERENCES *****
COMMENT *****       LINES 275-280 INITIALIZE FIELDS FOR NEW LEAD-IN        *****
COMMENT *****                     RECORD REFERENCES                        *****
COMMENT *****       LINES 285-395 CONTINUE REPORT LINE CREATION FOR NEW    *****
COMMENT *****                     LEAD-IN RECORD REFERENCES                *****
COMMENT *****       LINES 400-425 PREPARE MAIN LEAD-IN ENTRY REPORT LINE   *****
COMMENT *****                     (OUTPUT IS CONTROLLED BY EDA4LERJ)       *****
COMMENT *****       LINES 500-655 PREPARE REPORT LINES FOR CHANGED         *****
COMMENT *****                     LEAD-IN ENTRY REFERENCES                 *****
COMMENT *****       LINES 660-800 PREPARE REPORT LINES FOR DELETED         *****
COMMENT *****                     CONTROLLED VOCABULARY RECORD REFERENCES *****
COMMENT *****       LINES 805-830 OUTPUT MAIN ENTRY REPORT LINE FOR        *****
COMMENT *****                     DELETED LEAD-IN                          *****
COMMENT *****       LINES 840-942 PREPARE REPORT LINES FOR REFERENCES ON   *****
COMMENT *****                     LEAD-IN ENTRY DELETION                   *****
COMMENT *****       LINE  945     CALLS OUTPUT ROUTINE                     *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE        COLUMN HEADING   COLUMN HEADING                    73 TO 80
--------------------------------------------------------------------------------------------------------------------
(TF) (CHG-TYPE) (  7) (C)
(TF) (SRT-TERM) ( 40) (C)
(TF) (REL-TYPE) (  1) (C)
(TF) (LINE-BLD) (128) (C)
(TF) (DELETSEG) (  1) (C)
(TF) (SNCHGFLG) (  1) (C)
(TF) (RFADDFLG) (  1) (C)
(TF) (LFREFFLG) (  1) (C)
(TF) (MFLG    ) (  1) (C)
(TF) (NO-LEREF) (  1) (F)               (0              )
```

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CARD SEQ   LOG  CON ..OPERAND A...    OPER     ..............OPERAND B..............     ....RESULT....  PARTIAL FIELD         SEQUENCE
TYPE NO.   LEV  CTR QLF FIELD NAME     ATN     QLF    FIELD NAME OR CONSTANT             QLF FIELD NAME  STRT NUMB OPR         73 TO 80
---------------------------------------------------------------------------------------------------------------------------------------
(PR)(100)                              (R )      (TERM                                )  (T,SRT-TERM)
(PR)(105)             (X,TRAN-ID )     (EQ)    (C,S1                                  )
(PR)(110)             (X,TRAN-ID )     (EQ)    (C,S2                                  )
(PR)(115)             (X,TRAN-ID )     (EQ)    (C,S3                                  )
(PR)(116)             (X,TRAN-ID )     (EQ)    (C,DS                                  )
(PR)(120)                              (NS)      (135                                 )
(PR)(125)                              (R )    (C,1                                   )  (T,SNCHGFLG)
(PR)(130)                              (GO)      (END                                 )
(PR)(135)             (X,TRAN-ID1)     (NE)    (C,D                                   )
(PR)(140)       (A)   (X,TRAN-ID1)     (NE)    (C,M                                   )
(PR)(145)                              (NS)      (500                                 )
(PR)(150)                              (R )    (C,ADDED                               )  (T,CHG-TYPE)
(PR)(155)                              (R )    (C,1                                   )  (T,RFADDFLG)
(PR)(160)                              (R )    (X,TERM                                )  (T,LINE-BLD)    ( 9) (40) (C)
(PR)(165)             (X,TRAN-ID )     (EQ)    (C,UF                                  )
(PR)(170)                              (NS)      (190                                 )
(PR)(175)                              (R )    (C,2                                   )  (T,REL-TYPE)
(PR)(180)                              (R )    (C,    UF                              )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(185)                              (GO)      (945                                 )
(PR)(190)             (X,TRAN-ID )     (EQ)    (C,RT                                  )
(PR)(195)                              (NS)      (215                                 )
(PR)(2[illegible]                              (R )    (C,3                                   )  (T,REL-TYPE)
(PR)(205)                              (R )    (C,    RT                              )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(210)                              (GO)      (945                                 )
(PR)(215)             (X,TRAN-ID )     (EQ)    (C,BT                                  )
(PR)(220)             (X,TRAN-ID )     (EQ)    (C,BR                                  )
(PR)(225)                              (NS)      (245                                 )
(PR)(230)                              (R )    (C,4                                   )  (T,REL-TYPE)
(PR)(235)                              (R )    (C,    BT                              )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(240)                              (GO)      (945                                 )
(PR)(245)             (X,TRAN-ID )     (EQ)    (C,NT                                  )
(PR)(250)             (X,TRAN-ID )     (EQ)    (C,NR                                  )
(PR)(255)                              (NS)      (275                                 )
(PR)(260)                              (R )    (C,5                                   )  (T,REL-TYPE)
(PR)(265)                              (R )    (C,    NT                              )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(270)                              (GO)      (945                                 )
(PR)(275)                              (R )    (C)                                       (T,RFADDFLG)
(PR)(280)                              (R )    (C,1                                   )  (T,REL-TYPE)
(PR)(285)             (X,TRAN-ID )     (EQ)    (C,UN                                  )
(PR)(290)             (X,TRAN-ID )     (EQ)    (C,UR                                  )
(PR)(295)             (X,TRAN-ID )     (EQ)    (C,UA                                  )
(PR)(300)       (A)   (T,LEREFFLG)     (EQ)    (C)
(PR)(305)                              (NS)      (325                                 )
(PR)(310)                              (R )    (C,    USE                             )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(315)                              (R )    (C,1                                   )  (T,LEREFFLG)
(PR)(320)                              (GO)      (945                                 )
(PR)(325)             (X,TRAN-ID )     (EQ)    (C,SE                                  )
(PR)(330)       (A)   (T,LEREFFLG)     (EQ)    (C)
(PR)(335)                              (NS)      (355                                 )
(PR)(340)                              (R )    (C,    SEE                             )  (T,LINE-BLD)    ( 1) ( 8) (C)
(PR)(345)                              (R )    (C,1                                   )  (T,LEREFFLG)
(PR)(350)                              (GO)      (945                                 )
(PR)(355)                              (R )    (C,2                                   )  (T,REL-TYPE)
(PR)(360)             (X,TRAN-ID )     (EQ)    (C,UA                                  )
(PR)(365)                              (NS)      (380                                 )
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CARD SEQ  LOG CON ..OPERAND A...  OPER  .............OPERAND B.............   ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN  QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR     73 TO 80
----------------------------------------------------------------------------------------------------------------------
(PR)(370)                         (R )  (C,   AND                          )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(375)                         (GO)    (945                             )
(PR)(380)         (X,TRAN-ID )    (EQ)  (C,SE                              )
(PR)(385)                         (NS)    (400                             )
(PR)(390)                         (R )  (C)                                   (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(395)                         (GO)    (945                             )
(PR)(400)         (X,TRAN-ID )    (EQ)  (C,LE                              )
(PR)(405)                         (NS)    (498                             )
(PR)(410)                         (R )  (C)                                   (T,REL-TYPE)
(PR)(415)                         (R )  (X,TERM                            )  (T,SRT-TERM)
(PR)(420)                         (R )  (X,TERM                            )  (T,LINE-BLD)
(PR)(425)                         (GO)    (END                             )
(PR)(498)                         (R )  (C,PROGRAM ERROR                   )  (T,LINE-BLD)
(PR)(499)                         (GO)    (945                             )
(PR)(500)         (X,TRAN-ID1)    (EQ)  (C,M                               )
(PR)(505)                         (NS)    (660                             )
(PR)(510)                         (R )  (C,CHANGED                         )  (T,CHG-TYPE)
(PR)(515)                         (R )  (C,1                               )  (T,MFLG    )
(PR)(540)                         (R )  (X,TERM                            )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(545)                         (R )  (C,1                               )  (T,REL-TYPE)
(PR)(550)         (X,TRAN-ID2)    (EQ)  (C,U                               )
(PR)(555)         (X,TRAN-ID2)    (EQ)  (C,A                               )
(PR)(560)     (A) (T,LEREFFLG)    (EQ)  (C)
(PR)(565)                         (NS)    (585                             )
(PR)(570)                         (R )  (C,   USE                          )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(575)                         (R )  (C,1                               )  (T,LEREFFLG)
(PR)(580)                         (GO)    (945                             )
(PR)(585)         (X,TRAN-ID2)    (EQ)  (C,S                               )
(PR)(590)     (A) (T,LEREFFLG)    (EQ)  (C)
(PR)(595)                         (NS)    (615                             )
(PR)(600)                         (R )  (C,   SEE                          )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(605)                         (R )  (C,1                               )  (T,LEREFFLG)
(PR)(610)                         (GO)    (945                             )
(PR)(615)                         (R )  (C,2                               )  (T,REL-TYPE)
(PR)(620)         (X,TRAN-ID2)    (EQ)  (C,A                               )
(PR)(625)                         (NS)    (640                             )
(PR)(630)                         (R )  (C,   AND                          )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(635)                         (GO)    (945                             )
(PR)(640)         (X,TRAN-ID2)    (EQ)  (C,S                               )
(PR)(650)                         (R )  (C)                                   (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(655)                         (GO)    (945                             )
(PR)(660)         (X,TRAN-ID1)    (EQ)  (C,D                               )
(PR)(670)                         (R )  (C,DELETED                         )  (T,CHG-TYPE)
(PR)(675)                         (R )  (C,1                               )  (T,DELETSEG)
(PR)(680)                         (R )  (X,TERM                            )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(710)         (X,TRAN-ID )    (EQ)  (C,DF                              )
(PR)(715)                         (NS)    (735                             )
(PR)(720)                         (R )  (C,2                               )  (T,REL-TYPE)
(PR)(725)                         (R )  (C,   UF                           )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(730)                         (GO)    (945                             )
(PR)(735)         (X,TRAN-ID )    (EQ)  (C,DR                              )
(PR)(740)                         (NS)    (760                             )
(PR)(745)                         (R )  (C,3                               )  (T,REL-TYPE)
(PR)(750)                         (R )  (C,   RT                           )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(755)                         (GO)    (945                             )
```

```
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(760)         (X,TRAN-ID )    (EQ)   (C,DB                             )
(PR)(765)                         (NS)     (785                            )
(PR)(770)                         (R )   (C,4                              )  (T,REL-TYPE)
(PR)(775)                         (R )   (C,    BT                         )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(780)                         (GO)     (945                            )
(PR)(785)         (X,TRAN-ID )    (EQ)   (C,DN                             )
(PR)(786)                         (NS)     (805                            )
(PR)(790)                         (R )   (C,5                              )  (T,REL-TYPE)
(PR)(795)                         (R )   (C,    NT                         )  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(800)                         (GO)     (945                            )
(PR)(805)         (X,TRAN-ID )    (EQ)   (C,DL                             )
(PR)(820)                         (R )   (C)                                  (T,REL-TYPE)
(PR)(825)                         (R )     (TERM                           )  (T,LINE-BLD)
(PR)(830)                         (GO)     (SUB EDA4THCR                   )
(PR)(840)         (T,NO-LEREF)    (EQ)   (D,0                              )
(PR)(845) (0) (A)   (LEREFTYP)    (EQ)   (C,U                              )
(PR)(850) (1) (0)   (LEREFTYP)    (EQ)   (C,A                              )
(PR)(855)                         (NS)     (875                            )
(PR)(860)                         (R )   (C,1                              )  (T,REL-TYPE)
(PR)(865)                         (R )   (C,    USE                        )  (T,LINE-BLD)
(PR)(870)                         (GO)     (940                            )
(PR)(875)         (T,NO-LEREF)    (EQ)   (D,0                              )
(PR)(880)     (A)   (LEREFTYP)    (EQ)   (C,S                              )
(PR)(885)                         (NS)     (905                            )
(PR)(890)                         (R )   (C,1                              )  (T,REL-TYPE)
(PR)(895)                         (R )   (C,    SEE                        )  (T,LINE-BLD)
(PR)(900)                         (GO)     (940                            )
(PR)(905)         (T,NO-LEREF)    (GT)   (D,0                              )
(PR)(910)     (A)   (LEREFTYP)    (EQ)   (C,A                              )
(PR)(915)                         (NS)     (934                            )
(PR)(920)                         (R )   (C,2                              )  (T,REL-TYPE)
(PR)(925)                         (R )   (C,    AND                        )  (T,LINE-BLD)
(PR)(930)                         (GO)     (940                            )
(PR)(934)                         (R )   (C,2                              )  (T,REL-TYPE)
(PR)(936)                         (R )   (C)                                  (T,LINE-BLD)  ( 1) ( 8) (C)
(PR)(940)         (T,NO-LEREF)    (+ )   (D,1                              )  (T,NO-LEREF)
(PR)(942)                         (R )     (LE-REF                         )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(945)                         (GO)     (SUB EDA4THCR                   )
```

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                             ****************************************
                             *      DUMP OF CATALOGED REQUESTS      *
                             * GROUP - EDA4UC15  REQUEST - EDA4THC2 *
                             ****************************************

-----------------------------------------------------------------------------------------------------------
CARD REPORT                           MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE        REQUESTOR ID      ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4THC2:                                                    *****
COMMENT *****    LINE  100     INITIATES AUTOMATIC MARK IV LOOPING ON RT   *****
COMMENT *****                  SEGMENT                                     *****
COMMENT *****    LINES 110-115 LOOK REFERENCE UP IN TERM TABLE GENERATED   *****
COMMENT *****                  BY CLASSIFICATION SCHEDULES UPDATE STEP     *****
COMMENT *****                  AND TEST RESULT FIELD FOR VALID LOOK UP     *****
COMMENT *****    LINES 122-126 INITIALIZE OUTPUT FIELDS                    *****
COMMENT *****    LINES 128-220 GENERATE REPORT LINE AND DYNAMICALLY        *****
COMMENT *****                  DELETE REFERENCE SEGMENT IF TERM WAS        *****
COMMENT *****                  DELETED FROM CLASSIFICATION SCHEDULES       *****
COMMENT *****    LINES 230-260 GENERATE REPORT LINE AND REPLACE            *****
COMMENT *****                  REFERENCE SEGMENT IF SPELLING OF TERM WAS   *****
COMMENT *****                  CHANGED IN CLASSIFICATION SCHEDULES         *****
COMMENT *****                  (OBTAINING NEW SPELLING FROM COORDINATED    *****
COMMENT *****                  FILE).                                      *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-----------------------------------------------------------------------------------------------------------
CARD   FIELD     FIELD FLD DEC OUTPT EDIT      INITIAL          LINE 1 OF       LINE 2 OF                  SEQUENCE
TYPE   NAME      LNGTH TYP PLC EDIT  LGTH       VALUE        COLUMN HEADING  COLUMN HEADING                73 TO 80
-----------------------------------------------------------------------------------------------------------
(TF)  (DELETSEG) (  1) (C)
(TF)  (CHANGSEG) (  1) (C)
(TF)  (CSCHANGE) ( 20) (C)
-----------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD   SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
-----------------------------------------------------------------------------------------------------------
(PR)(100)            (RT-REF  )   (EQ)     (RT-REF                          )
(PR)(110)            (RT-REF  )   (TL)    (L,EDA4ATRM                       )  (T,CSCHANGE)
(PR)(115)          (T,CSCHANGE)   (EQ)    (T,CSCHANGE                       )
(PR)(122)                         (R )     (TERM                            )  (T,SRT-TERM)
(PR)(124)                         (R )    (C,3                              )  (T,REL-TYPE)
(PR)(126)                         (R )    (C,   RT                          )  (T,LINE-BLD)
(PR)(128)          (T,CSCHANGE)   (EQ)    (C,D                              )
(PR)(129)                         (NS)     (230                             )
(PR)(130)                         (R )     (RT-REF                          )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(140)                         (R )    (C,DELETED                        )  (T,CHG-TYPE)
(PR)(150)                         (R )    (C,1                              )  (T,DELETSEG)
(PR)(190)                         (GO)     (SUB EDA4THCR                    )
(PR)(200)                         (R )    (C)                                    (RT-REF  )
(PR)(210)                         (R )    (D,2                              )  (F,DELETE  )
(PR)(220)                         (GO)     (END                             )
(PR)(230)                         (R )    (1,TERM                           )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(240)                         (R )    (C,CHANGED                        )  (T,CHG-TYPE)
(PR)(250)                         (R )    (1,TERM                           )    (RT-REF  )
(PR)(255)                         (R )    (C,1                              )  (T,CHANGSEG)
(PR)(260)                         (GO)     (SUB EDA4THCR                    )
```

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                                         ****************************************
                                         *      DUMP OF CATALOGED REQUESTS      *
                                         * GROUP - EDA4UC15  REQUEST - EDA4THC3 *
                                         ****************************************
-------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK UP REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4THC3:                                                    *****
COMMENT *****    LINE  110     INITIATES AUTOMATIC MARK IV LOOPING ON BT   *****
COMMENT *****                  SEGMENT                                     *****
COMMENT *****    LINES 120-125 LOOK REFERENCE UP IN TERM TABLE AND TEST    *****
COMMENT *****                  FOR VALID RESULT                            *****
COMMENT *****    LINES 132-136 INITIALIZE OUTPUT FIELDS                    *****
COMMENT *****    LINES 138-230 GENERATE REPORT LINE AND DYNAMICALLY        *****
COMMENT *****                  DELETE SEGMENT FOR DELETIONS                *****
COMMENT *****    LINES 240-270 GENERATE REPORT LINE AND REPLACE SEGMENT    *****
COMMENT *****                  FOR SPELLING CHANGES                        *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR         73 TO 80
-------------------------------------------------------------------------------------------------------------------------
(PR)(110)            (BT-REF  )    (EQ)     (BT-REF                         )
(PR)(120)            (BT-REF  )    (TL)   (L,EDA4ATRM                       )  (T,CSCHANGE)
(PR)(125)          (T,CSCHANGE)    (EQ)   (T,CSCHANGE                       )
(PR)(132)                          (R )     (TERM                           )  (T,SRT-TERM)
(PR)(134)                          (R )   (C,4                              )  (T,REL-TYPE)
(PR)(136)                          (R )   (C,   BT                          )  (T,LINE-BLD)
(PR)(138)          (T,CSCHANGE)    (EQ)   (C,D                              )
(PR)(139)                          (NS)     (240                            )
(PR)(140)                          (R )     (BT-REF                         )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(150)                          (R )   (C,DELETED                        )  (T,CHG-TYPE)
(PR)(160)                          (R )   (C,1                              )  (T,DELETSEG)
(PR)(200)                          (GO)     (SUB EDA4THCR                   )
(PR)(210)                          (R )   (C)                                    (BT-REF  )
(PR)(220)                          (R )   (D,2                              )  (F,DELETE  )
(PR)(230)                          (GO)     (END                            )
(PR)(240)                          (R )   (1,TERM                           )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(250)                          (R )   (C,CHANGED                        )  (T,CHG-TYPE)
(PR)(260)                          (R )   (1,TERM                           )    (BT-REF  )
(PR)(265)                          (R )   (C,1                              )  (T,CHANGSEG)
(PR)(270)                          (GO)     (SUB EDA4THCR                   )
```

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                              ****************************************
                              *      DUMP OF CATALOGED REQUESTS      *
                              * GROUP - EDA4UC15  REQUEST - EDA4THC4 *
                              ****************************************
-------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** ********************************************************** *****
COMMENT *****                                                            *****
COMMENT ***** EDA4THC4:                                                  *****
COMMENT *****    LINE  110      INITIATES AUTOMATIC MARK IV LOOPING ON BT *****
COMMENT *****                   SEGMENT                                  *****
COMMENT *****    LINES 120-125 LOOK REFERENCE UP IN TERM TABLE AND TEST  *****
COMMENT *****                   FOR VALID RESULT                         *****
COMMENT *****    LINES 132-136 INITIALIZE OUTPUT FIELDS                  *****
COMMENT *****    LINES 138-230 GENERATE REPORT LINE AND DYNAMICALLY      *****
COMMENT *****                   DELETE SEGMENT FOR DELETIONS             *****
COMMENT *****    LINES 240-270 GENERATE REPORT LINE AND REPLACE SEGMENT  *****
COMMENT *****                   FOR SPELLING CHANGES                     *****
COMMENT *****                                                            *****
COMMENT ***** ********************************************************** *****
-------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B..............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO   LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT         QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------
(PR)(110)          (NT-REF  )    (EQ)     (NT-REF                           )
(PR)(120)          (NT-REF  )    (TL)   (L,EDA4ATRM                         )  (T,CSCHANGE)
(PR)(125)        (T,CSCHANGE)    (EQ)   (T,CSCHANGE                         )
(PR)(132)                        (R )     (TERM                             )  (T,SRT-TERM)
(PR)(134)                        (R )   (C,5                                )  (T,REL-TYPE)
(PR)(136)                        (R )   (C,   NT                            )  (T,LINE-BLD)
(PR)(138)        (T,CSCHANGE)    (EQ)   (C,D                                )
(PR)(139)                        (NS)     (240                              )
(PR)(140)                        (R )     (NT-REF                           )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(150)                        (R )   (C,DELETED                          )  (T,CHG-TYPE)
(PR)(160)                        (R )   (C,1                                )  (T,DELETSEG)
(PR)(200)                        (GO)     (SUB EDA4THCR                     )
(PR)(210)                        (R )   (C)                                      (NT-REF  )
(PR)(220)                        (R )   (D,2                                )  (F,DELETE  )
(PR)(230)                        (GO)     (END                              )
(PR)(240)                        (R )   (1,TERM                             )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(250)                        (R )   (C,CHANGED                          )  (T,CHG-TYPE)
(PR)(260)                        (R )   (1,TERM                             )    (NT-REF  )
(PR)(265)                        (R )   (C,1                                )  (T,CHANGSEG)
(PR)(270)                        (GO)     (SUB EDA4THCR                     )
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC15  REQUEST - EDA4THC5 *
                                        ****************************************
----------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )
COMMENT ***** *********************************************************** *****
COMMENT *****                                                             *****
COMMENT ***** EDA4THC5:                                                   *****
COMMENT *****    LINE  110      BEGINS LOOP THROUGH LEAD-IN ENTRY         *****
COMMENT *****                   REFERENCES                                *****
COMMENT *****    LINES 120-150 TEST FOR DELETION OF SPELLING CHANGE OF    *****
COMMENT *****                   REFERENCE TERM                            *****
COMMENT *****    LINES 160-200 IF THE REFERENCE HAS BEEN DELETED, DELETE  *****
COMMENT *****                   THE ENTIRE LEAD-IN ENTRY RECORD           *****
COMMENT *****    LINES 210-220 UPDATE CHANGED SPELLING                    *****
COMMENT *****                                                             *****
COMMENT ***** *********************************************************** *****
----------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
----------------------------------------------------------------------------------------------------------------------------
(PR)(110)            (LE-REF  )   (EQ)     (LE-REF                           )
(PR)(120)            (LE-REF  )   (TL)   (L.EDA4ATRM                         )  (T.CSCHANGE)
(PR)(130)          (T.CSCHANGE)   (EQ)   (T.CSCHANGE                         )
(PR)(150)                         (NS)     (END                              )
(PR)(160)          (T.CSCHANGE)   (EQ)   (C.D                                )
(PR)(170)                         (NS)     (210                              )
(PR)(180)                         (R )   (C.1                                )  (T.DELETSEG)
(PR)(190)                         (R )   (D.1                                )  (F.DELETE  )
(PR)(200)                         (GO)     (END                              )
(PR)(210)                         (R )   (C.1                                )  (T.CHANGSEG)
(PR)(220)                         (R )   (1.TERM                             )    (LE-REF  )
```

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                                    ******************************************
                                    *      DUMP OF CATALOGED REQUESTS        *
                                    * GROUP - EDA4RT01  REQUEST - EDA4THP2   *
                                    ******************************************
--------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID             ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
--------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4THP2:                                                    *****
COMMENT *****    SET UP AND OUTPUT THESAURUS REPORT LINES FOR "RELATED     *****
COMMENT *****    TERM" REFERENCES                                          *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
--------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   ............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
--------------------------------------------------------------------------------------------------------------------
(PR)(110)            (RT-REF   )  (EQ)     (RT-REF                          )
(PR)(120)                         (R )   (C,6C                              )  (T,REL-TYPE)
(PR)(130)                         (R )   (C,   RT                           )  (T,LINE-BLD)
(PR)(140)                         (R )     (RT-REF                          )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(160)                         (GO)     (SUB EDA4TH-R                    )
```

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                                 ****************************************
                                 *       DUMP OF CATALOGED REQUESTS     *
                                 * GROUP - EDA4RT01  REQUEST - EDA4THP3 *
                                 ****************************************
-------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ  SET   BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP  NAME  CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------
(EN)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                               *****
COMMENT ***** EDA4THP3:                                                     *****
COMMENT *****    SET UP AND OUTPUT THESAURUS REPORT LINES FOR "BROADER      *****
COMMENT *****    TERM" REFERENCES                                           *****
COMMENT *****                                                               *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR       73 TO 80
-------------------------------------------------------------------------------------------------------
(PR)(110)          (BT-REF  )     (EQ)     (BT-REF                        )
(PR)(120)                         (R )   (C,7D                            )  (T,REL-TYPE)
(PR)(130)                         (R )   (C,   BT                         )  (T,LINE-BLD)
(PR)(140)                         (R )     (BT-REF                        )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(160)                         (GO)     (SUB EDA4TH-R                  )
```

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                                                  ****************************************
                                                  *      DUMP OF CATALOGED REQUESTS      *
                                                  * GROUP - EDA4RTC1  REQUEST - EDA4THP4 *
                                                  ****************************************

------------------------------------------------------------------------------------------------------------------------------
CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET     BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME    CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** *************************************************************** *****
COMMENT *****                                                                 *****
COMMENT ***** EDA4THP4:                                                       *****
COMMENT *****    SET UP AND OUTPUT THESAURUS REPORT LINES FOR "NARROWER       *****
COMMENT *****    TERM" REFERENCES                                             *****
COMMENT *****                                                                 *****
COMMENT ***** *************************************************************** *****
------------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.... PARTIAL FIELD        SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR        73 TO 80
------------------------------------------------------------------------------------------------------------------------------
(PR)(110)             (NT-REF  )   (EQ)     (NT-REF                         )
(PR)(120)                          (NS)     (NEXT MASTER                    )
(PR)(130)                          (R )   (C,BE                             )  (T,REL-TYPE)
(PR)(140)                          (R )   (C,    NT                         )  (T,LINE-BLD)
(PR)(150)                          (R )     (NT-REF                         )  (T,LINE-BLD)  ( 9) (40) (C)
(PR)(170)                          (GO)     (SUB EDA4TH-R                   )
```

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                                  ****************************************
                                  *      DUMP OF CATALOGED REQUESTS      *
                                  * GROUP - EDA4RT01  REQUEST - EDA4THP5 *
                                  ****************************************
-------------------------------------------------------------------------------------------------------------------
CARD REPORT                                    MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET      BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID              ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME     CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4THP5:                                                    *****
COMMENT *****    THESAURUS REPORT PROCESSING IS COMPLETE FOR CONTROLLED    *****
COMMENT *****    VOCABULARY TERMS, BRANCH TO NEXT MASTER RECORD.           *****
COMMENT *****    PROCESSING OF LEAD-IN ENTRIES IS HANDLED BY A DIRECT      *****
COMMENT *****    BRANCH FROM EDA4TH-P TO EDA4THP6.                         *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    ............OPERAND B............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR      73 TO 80
-------------------------------------------------------------------------------------------------------------------
(PR)                              (GO)     (NEXT MASTER                    )
```

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                         ***************************************************
                         *      DUMP OF CATALOGED REQUESTS                 *
                         * GROUP - EDA4RT01  REQUEST - EDA4THP6            *
                         ***************************************************
-------------------------------------------------------------------------------------------------------------------
CARD REPORT                                   MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID           ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4THP6:                                                    *****
COMMENT *****        LINE  120     OUTPUTS THE LEAD-IN ENTRY THESAURUS     *****
COMMENT *****                      REPORT LINE                             *****
COMMENT *****        LINE  130     INITIALIZES THE REFERENCE COUNT FIELD   *****
COMMENT *****        LINES 140-150 START THE LOOP THROUGH THE REFERENCES   *****
COMMENT *****        LINES 160-220 PLACE "USE" IN THE OUTPUT LINE FOR THE  *****
COMMENT *****                      FIRST OCCURRENCE OF ANY USE REFERENCE   *****
COMMENT *****        LINES 230-280 PLACE "SEE" IN THE OUTPUT LINE FOR THE  *****
COMMENT *****                      FIRST OCCURRENCE OF A SEE REFERENCE     *****
COMMENT *****        LINES 290-330 PLACE "AND" IN THE OUTPUT LINE FOR      *****
COMMENT *****                      REMAINING OCCURRENCES OF USE AND        *****
COMMENT *****                      REFERENCES                              *****
COMMENT *****        LINE  340     PLACES BLANKS IN THE OUTPUT LINE FOR    *****
COMMENT *****                      REMAINING OCCURRENCES OF SEE REFERENCES *****
COMMENT *****        LINES 350-370 COMPLETE BUILDING OF THE REPORT LINE    *****
COMMENT *****                      AND BRANCH TO THE OUTPUT ROUTINE        *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD     SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR     73 TO 80
-------------------------------------------------------------------------------------------------------------------
(PR)(120)                         (GO)     (SUB EDA4TH-R                    )
(PR)(130)                         (R )   (D,0                               )  (T,NO-LEREF)
(PR)(140)            (LE-REF  )   (EQ)     (LE-REF                          )
(PR)(150)                         (NS)     (END                             )
(PR)(160)          (T,NO-LEREF)   (EQ)   (D,0                               )
(PR)(170) (0) (A)    (LEREFTYP)   (EQ)   (C,U                               )
(PR)(180) (1)        (LEREFTYP)   (EQ)   (C,A                               )
(PR)(190)                         (NS)     (230                             )
(PR)(200)                         (R )   (C,1B                              )  (T,REL-TYPE)
(PR)(210)                         (R )   (C,    USE                         )  (T,LINE-BLD)
(PR)(220)                         (GO)     (360                             )
(PR)(230)          (T,NO-LEREF)   (EQ)   (D,0                               )
(PR)(240)     (A)    (LEREFTYP)   (EQ)   (C,S                               )
(PR)(250)                         (NS)     (290                             )
(PR)(260)                         (R )   (C,1B                              )  (T,REL-TYPE)
(PR)(270)                         (R )   (C,    SEE                         )  (T,LINE-BLD)
(PR)(280)                         (GO)     (360                             )
(PR)(290)          (T,NO-LEREF,   (GT)   (D,0                               )
(PR)(300)     (A)    (LEREFTYP)   (EQ)   (C,A                               )
(PR)(310)                         (NS)     (340                             )
(PR)(320)                         (R )   (C,    AND                         )  (T,LINE-BLD)
(PR)(330)                         (GO)     (350                             )
(PR)(340)                         (R )   (C)                                   (T,LINE-BLD)
(PR)(350)                         (R )   (C,2B                              )  (T,REL-TYPE)
(PR)(360)          (T,NO-LEREF)   (+ )   (D,1                               )  (T,NO-LEREF)
(PR)(365)                         (R )     (LE-REF                          )  (T,LINE-BLD)  ( 9) (40) (C)
```

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-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(370)                         (GO)     (SUB EDA4TH-R                    )
```

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                                        ****************************************
                                        *      DUMP OF CATALOGED REQUESTS      *
                                        * GROUP - EDA4UC03  REQUEST - EDA4TOVF *
                                        ****************************************
-----------------------------------------------------------------------------------------------------------------------
CARD REPORT                                 MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE           REQUESTOR ID         ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                       (1)
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** VERIFICATION ROUTINE USED BY BOTH THE CLASSIFICATION         *****
COMMENT ***** SCHEDULES UPDATE AND THE THESAURUS UPDATE RUNS.              *****
COMMENT *****                                                              *****
COMMENT ***** EDA4TOVF:                                                    *****
COMMENT *****    EXECUTES AFTER EACH TRANSACTION IS READ.                  *****
COMMENT *****       LINES 070-100 BYPASS SCOPE NOTE TRANSACTIONS (TEST IS  *****
COMMENT *****                     INVALID FOR THESE)                       *****
COMMENT *****       LINES 110-120 TEST FOR FIELD OVERFLOW                  *****
COMMENT *****       LINES 130-140 SET FLAGS FOR ERROR TRANSACTION          *****
COMMENT *****       LINES 160-180 FOR REJECTED "LE" TRANSACTIONS SET       *****
COMMENT *****                     FIELDS TO CLARIFY PROCESSING OF          *****
COMMENT *****                     REMAINDER OF LEAD-IN ENTRY UNIT          *****
COMMENT *****                                                              *****
COMMENT ***** TEMPORARY FIELDS:                                            *****
COMMENT *****    LEFLG    -- FLAG INDICATING AN "LE" TRANSACTION HAS BEEN  *****
COMMENT *****                PROCESSED                                     *****
COMMENT *****    LE-TYPE  -- FLAG INDICATING THE LAST TRANSACTION TYPE     *****
COMMENT *****                PROCESSED FOR A LEAD-IN ENTRY UNIT            *****
COMMENT *****    KEY      -- FLAG USED IN CLASSIFICATION SCHEDULES         *****
COMMENT *****                VERIFICATION TO INDICATE APPLICABLE FILE      *****
COMMENT *****                SEQUENCE                                      *****
COMMENT *****    OVRFLFLG -- FLAG INDICATING TRANSACTION FIELD OVERFLOW    *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
-----------------------------------------------------------------------------------------------------------------------
CARD   FIELD    FIELD FLD DEC OUTPT EDIT       INITIAL          LINE 1 OF        LINE 2 OF                      SEQUENCE
TYPE   NAME     LNGTH TYP PLC EDIT  LGTH        VALUE         COLUMN HEADING   COLUMN HEADING                   73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(TF)  (LEFLG   ) (  1) (F)
(TF)  (LE-TYPE ) (  2) (C)
(TF)  (KEY     ) (  1) (C)              (T               )
(TF)  (OVRFLFLG) (  1) (C)
-----------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD      SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN   QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR      73 TO 80
-----------------------------------------------------------------------------------------------------------------------
(PR)(070)          (X,TRAN-ID )   (NE)   (C,S1                               )
(PR)(080)     (A)  (X,TRAN-ID )   (NE)   (C,S2                               )
(PR)(090)     (A)  (X,TRAN-ID )   (NE)   (C,S3                               )
(PR)(100)                         (NS)     (END                              )
(PR)(110)          (X,OVRFLW-C)   (SN)   (P,BBB                              )
(PR)(120)          (X,OVRFLW-T)   (SN)   (P,BBBBBBBBBBBBBBB                  )
(PR)(130)                         (R )   (D,4                                )  (F,DELETE  )
(PR)(140)                         (R )   (C,1                                )  (T,OVRFLFLG)
(PR)(150)          (X,TRAN-ID )   (EQ)   (C,LE                               )
(PR)(160)                         (R )   (C)                                    (X,CODE    )
(PR)(170)                         (R )   (D,1                                )  (T,LEFLG   )
(PR)(180)                         (R )   (X,TRAN-ID                          )  (T,LE-TYPE )
```

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                                      **************************************
                                      *      DUMP OF CATALOGED REQUESTS    *
                                      * GROUP - EDA4RT03  REQUEST - EDA4TPNT *
                                      **************************************
------------------------------------------------------------------------------------------------------------------
CARD REPORT                               MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE          REQUESTOR ID        ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------
(ER)(TODAY )
COMMENT ***** ************************************************************ *****
COMMENT *****                                                              *****
COMMENT ***** EDA4TPNT:                                                    *****
COMMENT *****    PERFORMS SECONDARY PROCESSING ON THESAURUS REPORT LINES   *****
COMMENT *****    TO IMPROVE READABILITY OF THE REPORT.  ACCESSES THE       *****
COMMENT *****    THESAURUS REPORT SUBFILE AS A MASTER FILE, BLANKS OUT     *****
COMMENT *****    UNWANTED FIELDS AND PRINTS THE REPORT.  (NOTE:  A NON-    *****
COMMENT *****    PRINTING LEVEL 1 CONTROL BREAK ON THE FIELD, CNTL-BRK,    *****
COMMENT *****    CAN BE ADDED TO CREATE BLANK LINES BETWEEN RELATIONSHIP   *****
COMMENT *****    GROUPS.)                                                  *****
COMMENT *****                                                              *****
COMMENT ***** ************************************************************ *****
------------------------------------------------------------------------------------------------------------------
CARD   FIELD      FIELD FLD DEC OUTPT EDIT        INITIAL           LINE 1 OF        LINE 2 OF                SEQUENCE
TYPE   NAME       LNGTH TYP PLC EDIT  LGTH         VALUE         COLUMN HEADING   COLUMN HEADING              73 TO 80
------------------------------------------------------------------------------------------------------------------
(TF)  (REL-SEQ ) (  1) (C)
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------------
(PR)(110)            (T,REL-SEQ )  (EQ)     (REL-SEQ                              )
(PR)(120)      (A)     (REL-SEQ )  (GE)   (C,5                                    )
(PR)(130)                          (NS)     (150                                  )
(PR)(140)                          (R )   (C)                                         (REL-PRNT)
(PR)(150)                          (R )     (REL-SEQ                              )  (T,REL-SEQ )
------------------------------------------------------------------------------------------------------------------
 CT SUM V  8  PG  PG   I SP  MAXIMUM TB COLUMN  DT  PG  STRT LIN SL RH .......SUBFILE........ C EMP        SEQUENCE
 RY RPT S LPI WID HGT  M FRM LPP PGS TO HEADING POS POS PAGE NUM UB PN ENT   NAME    BLK/ FMT H FLD        73 TO 80
 DP     P              G              LT TYP POS          NUM      HL TD REC          BUF      B CTL
------------------------------------------------------------------------------------------------------------------
(E1)         ( 66, 60)(2)                 (X)      (ND,NP)
------------------------------------------------------------------------------------------------------------------
          SP  Q          E  N  S  D  C  S   T  C  C  M  M  A D Q PCT/RAT      P                 PARTIAL
CARD SEQ  BF  L  FIELD   N  P  E  E  T  U   O  U  N  A  I  V E L  FIELD   RA- C     PICTURE     STRT NO     SEQUENCE
TYPE NO.  COL F  NAME    D  R  Q  S  L  B   T  M  T  X  N  G C F  NAME    TIO T      EDIT       CHR CHR     73 TO 80
------------------------------------------------------------------------------------------------------------------
(R1)(105)( 0)  (SRT-TERM)  (Y)      (1)
(R1)(120)( 0)  (LINE-BLD)
------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER    .............OPERAND B.............  ....RESULT.,.. PARTIAL FIELD    SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF     FIELD NAME OR CONSTANT       QLF FIELD NAME STRT NUMB OPR    73 TO 80
------------------------------------------------------------------------------------------------------------------
(T1)      (#)
(T1)      (#)
(T1)      (#)
```

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                                         *****************************************
                                         *      DUMP OF CATALOGED REQUESTS       *
                                         * GROUP - EDA4US05  REQUEST - EDA4USTP  *
                                         *****************************************

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CARD REPORT                                  MAX  SEL SUM VERT FORMS PAGE PAGE LINE REQ   SET    BACK BR REINIT SEQUENCE
TYPE  DATE            REQUESTOR ID          ITEMS CTL RPT  SP  CNTRL WDTH HGHT NOS  TYP   NAME   CONTROL TEMPS  73 TO 80
------------------------------------------------------------------------------------------------------------------------
(ER)(DATE  )                                                                         (3)
------------------------------------------------------------------------------------------------------------------------
CARD SEQ  LOG CON ..OPERAND A...  OPER   .............OPERAND B.............  ....RESULT.... PARTIAL FIELD       SEQUENCE
TYPE NO.  LEV CTR QLF FIELD NAME   ATN    QLF    FIELD NAME OR CONSTANT        QLF FIELD NAME STRT NUMB OPR       73 TO 80
------------------------------------------------------------------------------------------------------------------------
(PR)(110)           (X,TRAN-ID1)   (EQ)   (C,T                               )
(PR)(120)     (A)   (F,TRAN    )   (EQ)   (D,1                               )
(PR)(130)                          (NS)     (END                             )
(PR)(140)             (OCC     )   (FS)   (X,OCC-ID                          )
(PR)(150)                          (R )   (X,SRC-TYPE                        )     (SRC-TYPE)
```

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